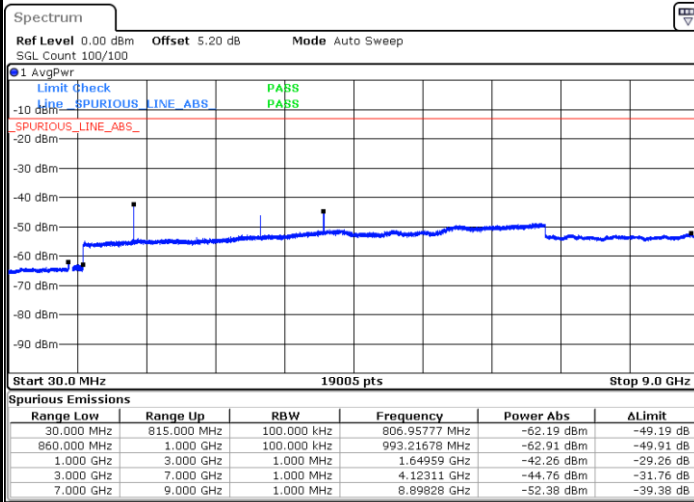




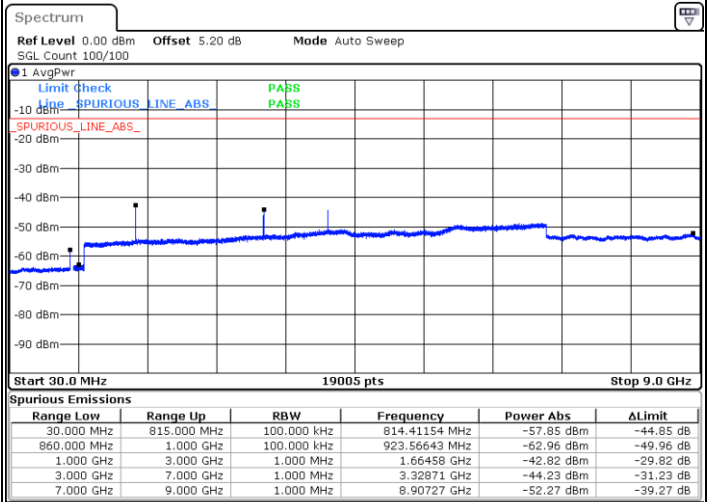
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



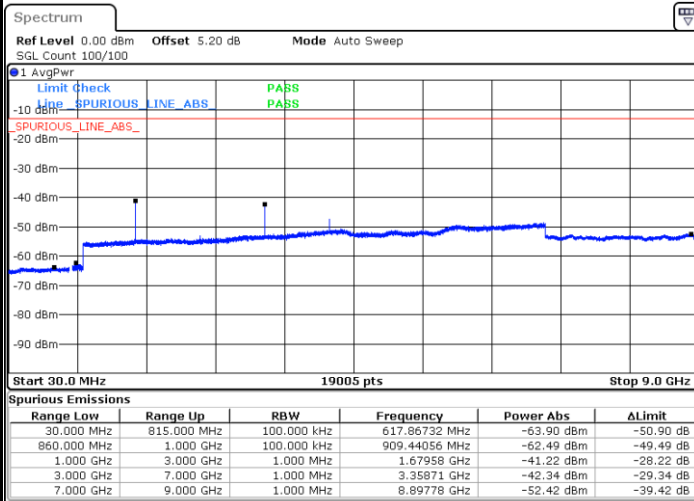
Date: 24 AUG 2020 20:01:24

Middle Channel / 64QAM



Date: 24 AUG 2020 20:02:17

Highest Channel / 64QAM



Date: 24 AUG 2020 20:07:09

**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note: Normal Voltage =4 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.4V.



LTE Band 12

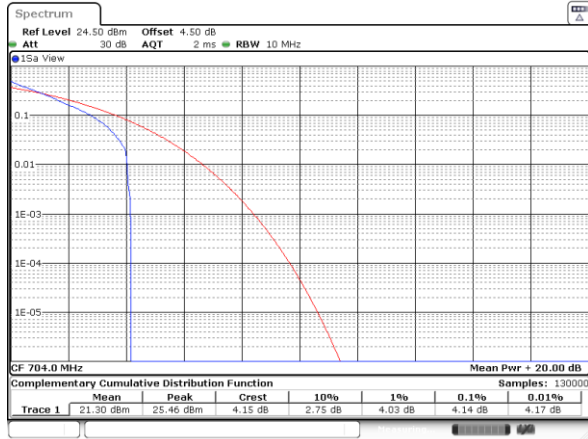
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	5.04	4.64	5.97	PASS
Middle CH	4.35	4.99	5.28	5.91	
Highest CH	4.52	4.87	5.16	5.77	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	4.99	6.06	-	-	PASS
Middle CH	5.42	5.94	-	-	
Highest CH	5.42	5.77	-	-	

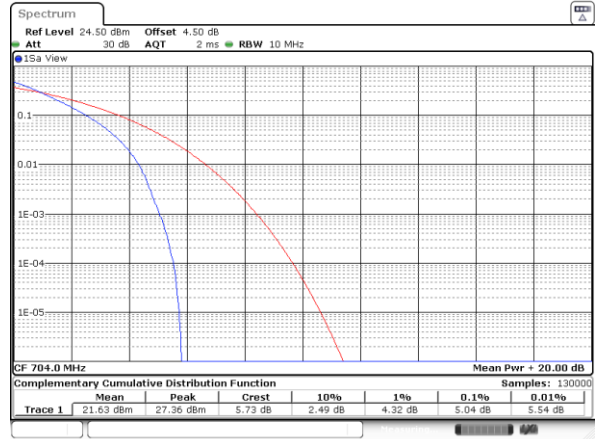


LTE Band 12 / 10MHz / QPSK

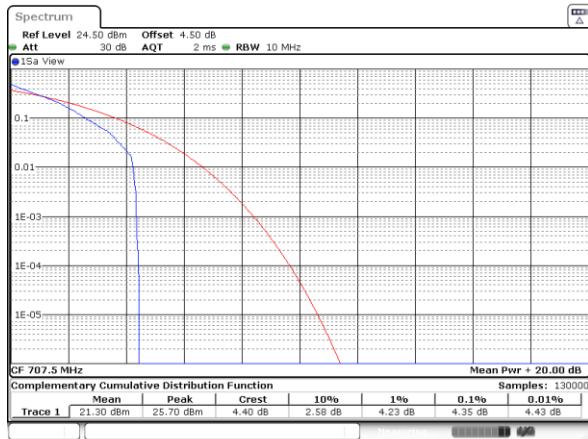
Lowest Channel / 1RB



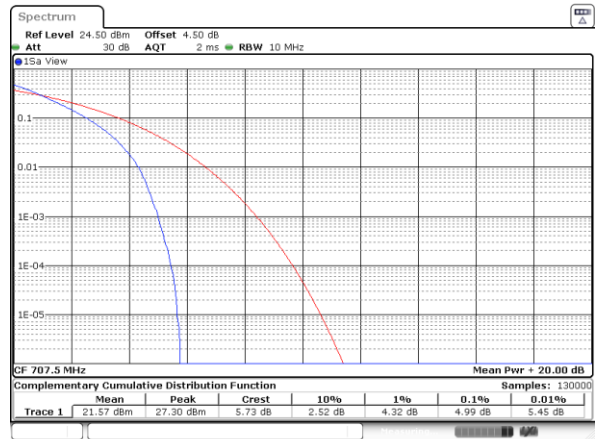
Lowest Channel / Full RB



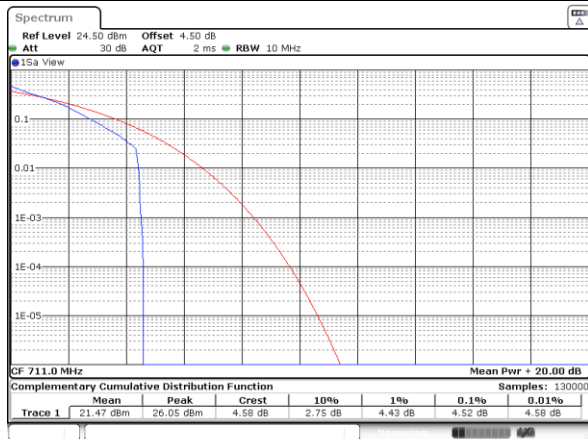
Middle Channel / 1RB



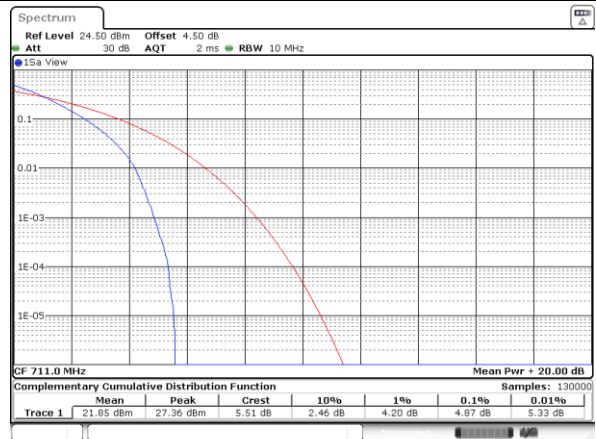
Middle Channel / Full RB



Highest Channel / 1RB



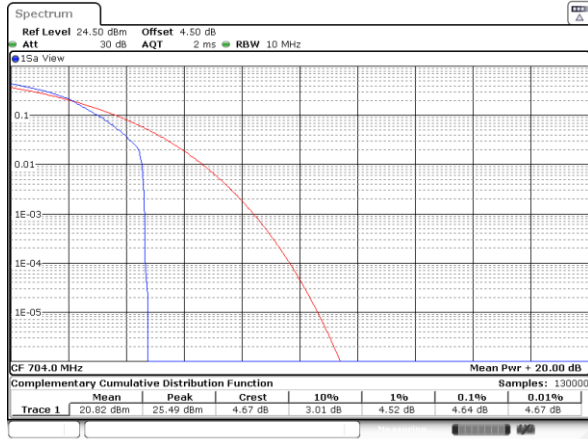
Highest Channel / Full RB



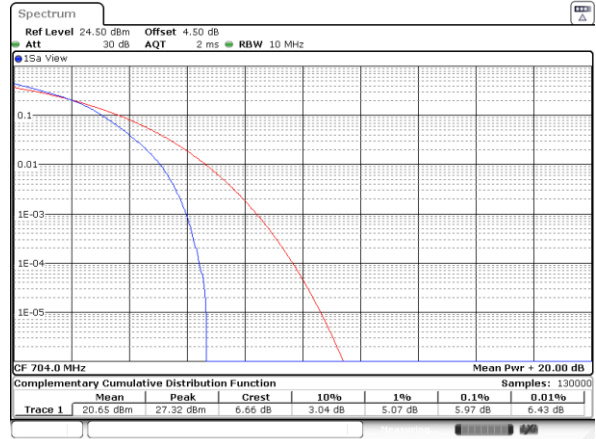


LTE Band 12 / 10MHz / 16QAM

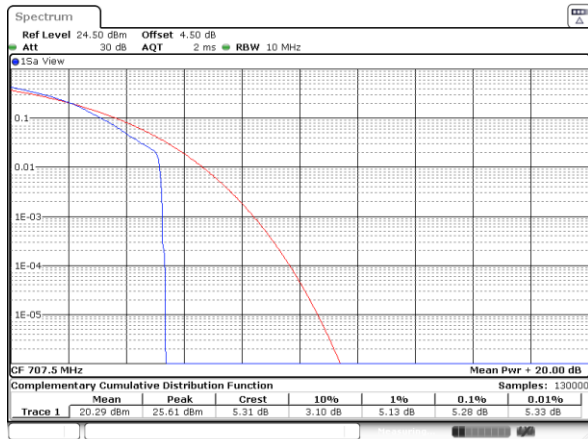
Lowest Channel / 1RB



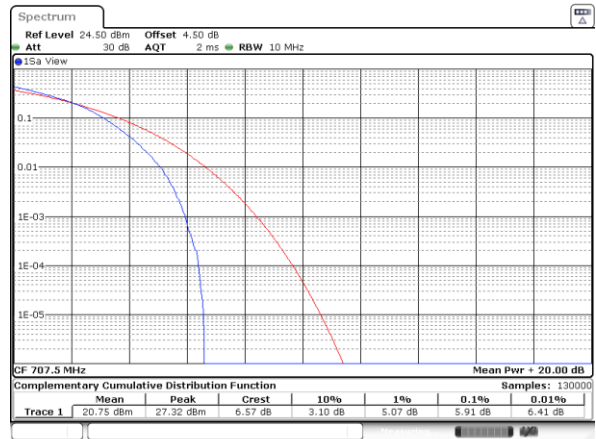
Lowest Channel / Full RB



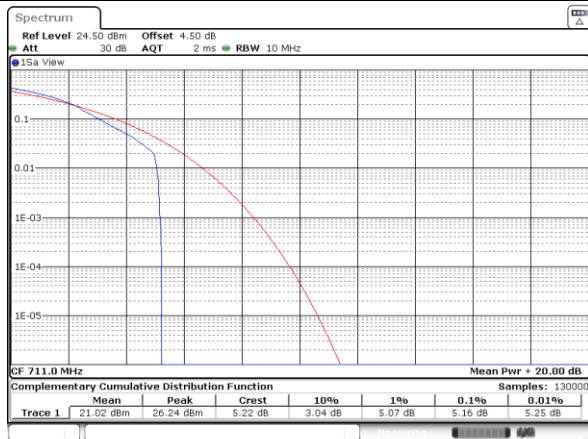
Middle Channel / 1RB



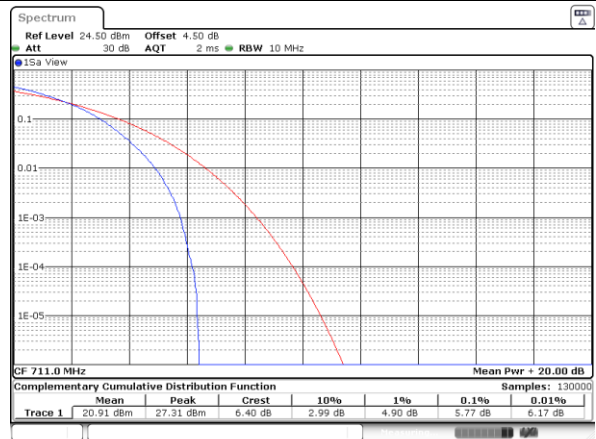
Middle Channel / Full RB



Highest Channel / 1RB



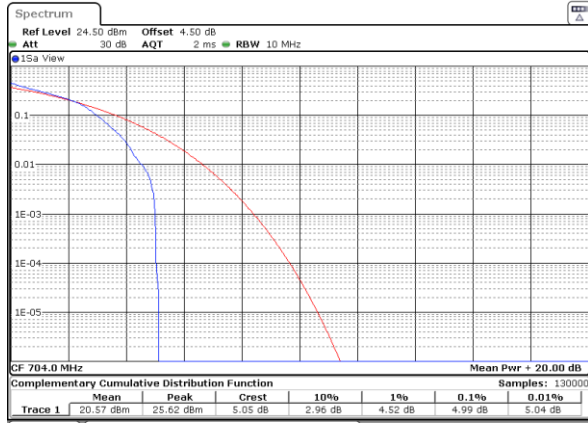
Highest Channel / Full RB



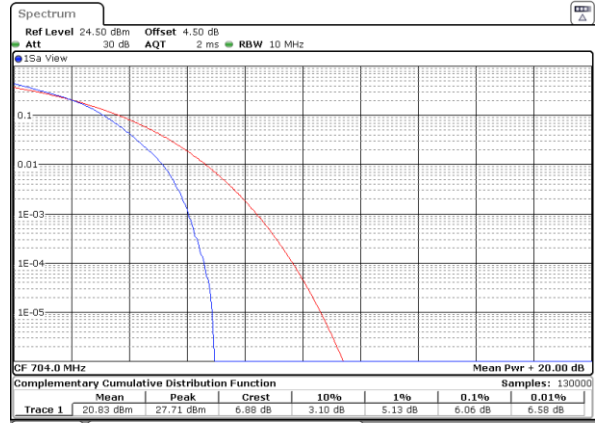


LTE Band 12 / 10MHz / 64QAM

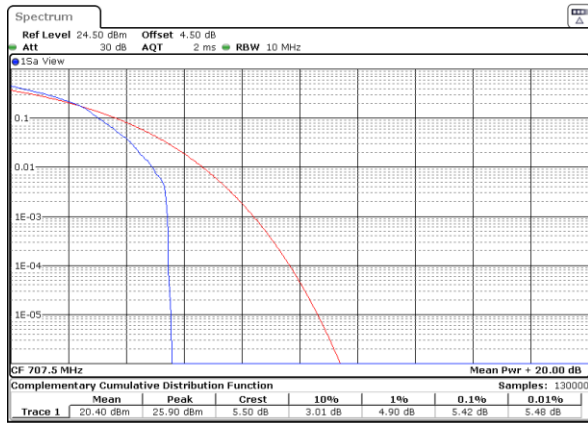
Lowest Channel / 1RB



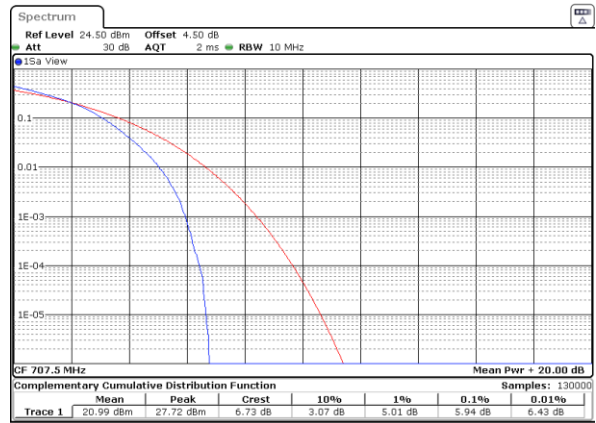
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



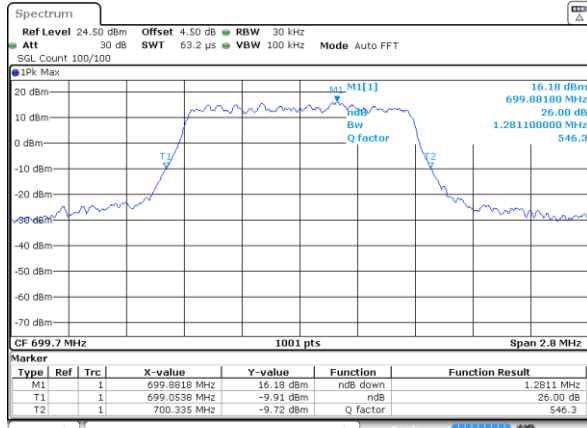
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.26	3.02	2.98	4.95	4.90	9.97	9.61
Middle CH	1.28	1.29	3.00	2.97	4.99	4.93	9.81	9.83
Highest CH	1.25	1.24	2.98	3.03	4.90	4.96	9.73	9.77
Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.25	-	3.05	-	4.88	-	9.89	-
Middle CH	1.28	-	2.99	-	4.99	-	9.87	-
Highest CH	1.29	-	3.04	-	4.91	-	9.79	-

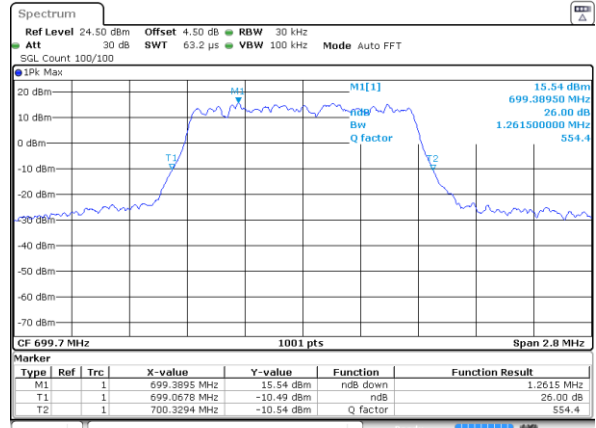


LTE Band 12

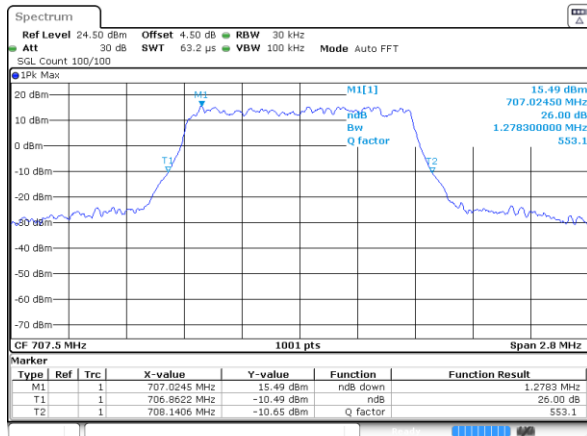
Lowest Channel / 1.4MHz / QPSK



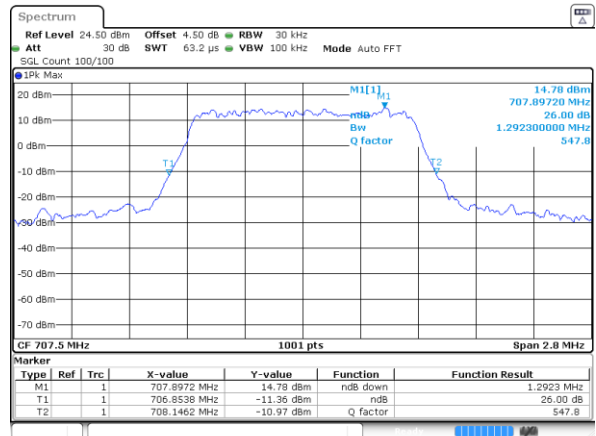
Lowest Channel / 1.4MHz / 16QAM



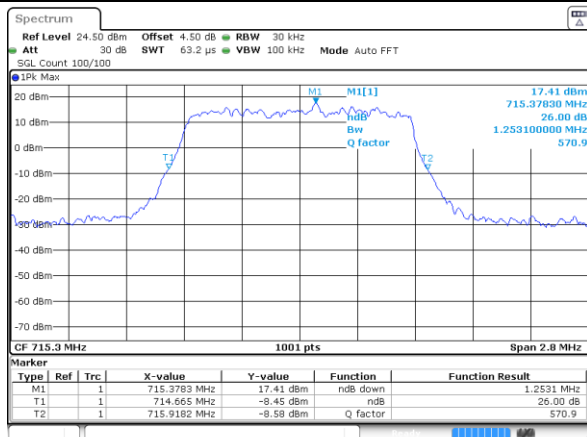
Middle Channel / 1.4MHz / QPSK



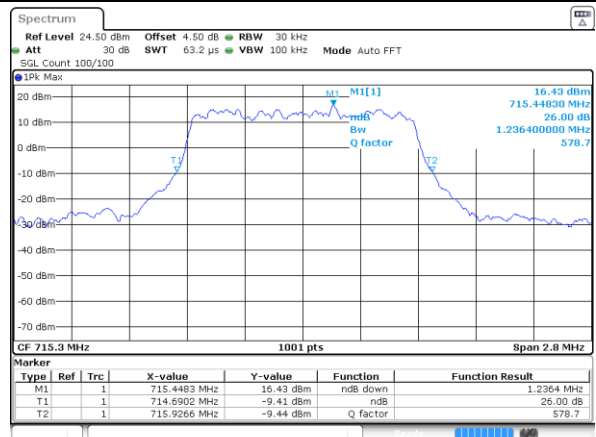
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



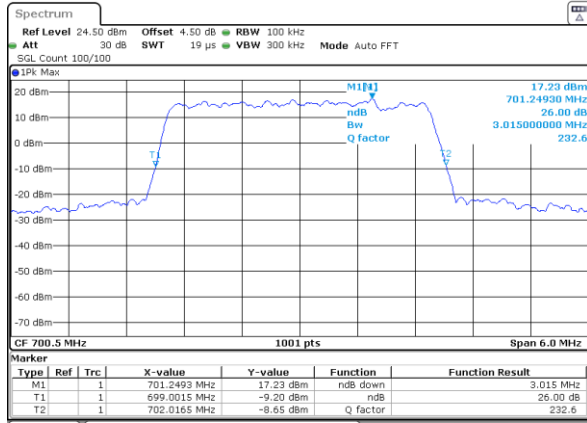
Highest Channel / 1.4MHz / 16QAM



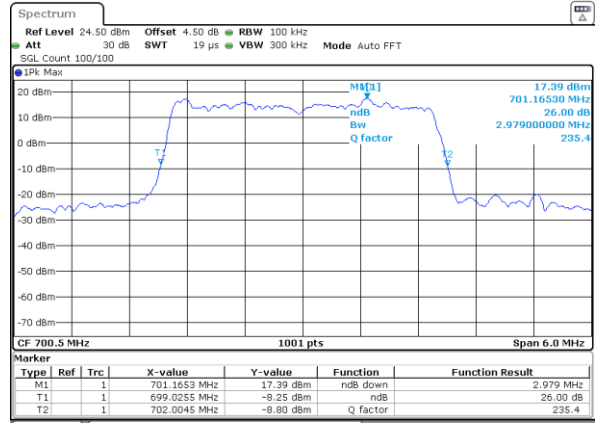


LTE Band 12

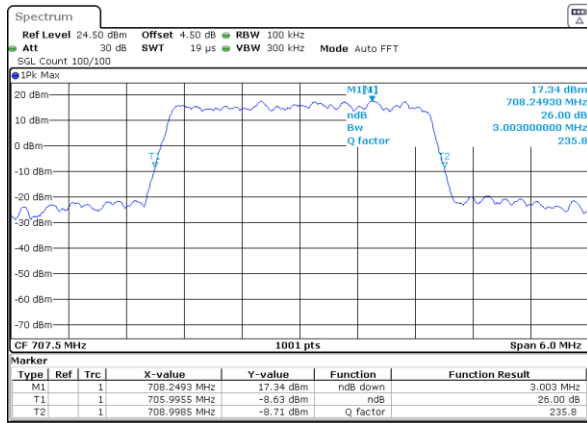
Lowest Channel / 3MHz / QPSK



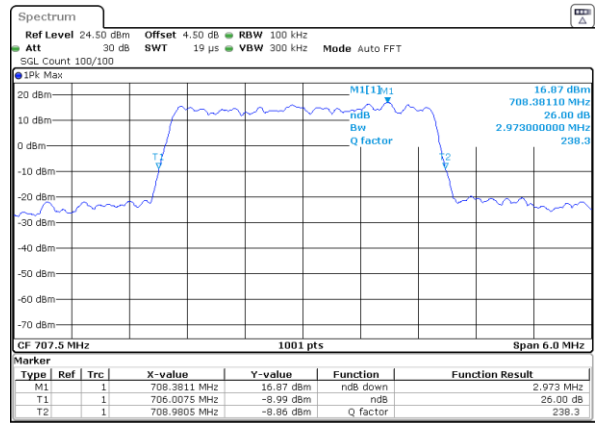
Lowest Channel / 3MHz / 16QAM



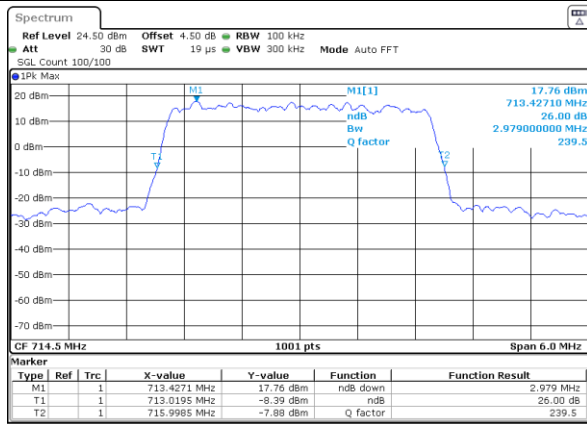
Middle Channel / 3MHz / QPSK



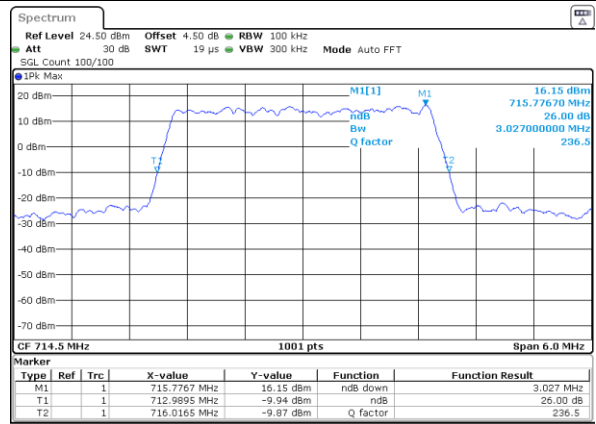
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



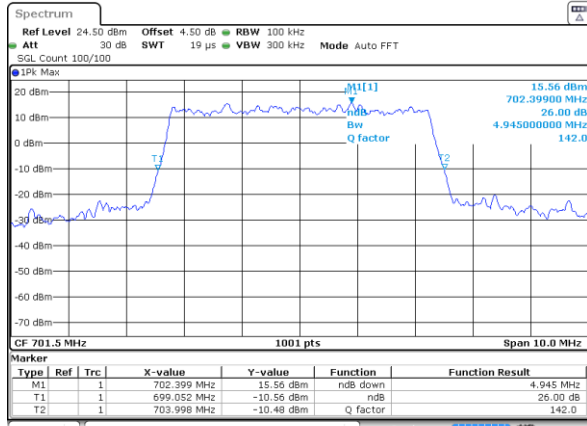
Highest Channel / 3MHz / 16QAM



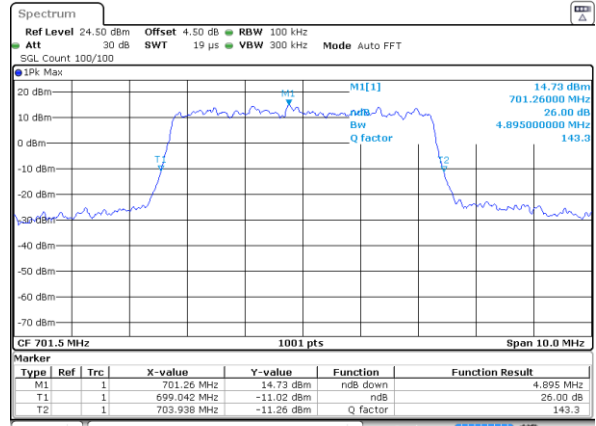


LTE Band 12

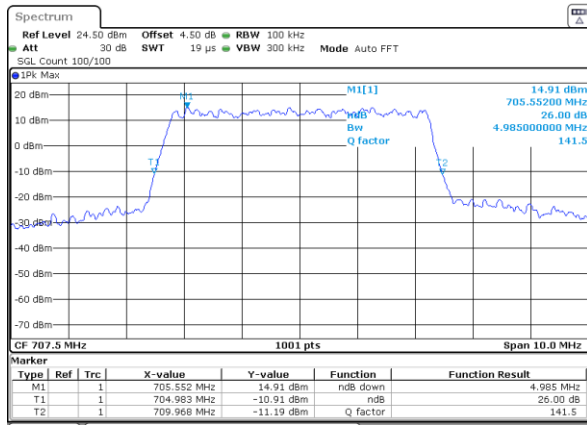
Lowest Channel / 5MHz / QPSK



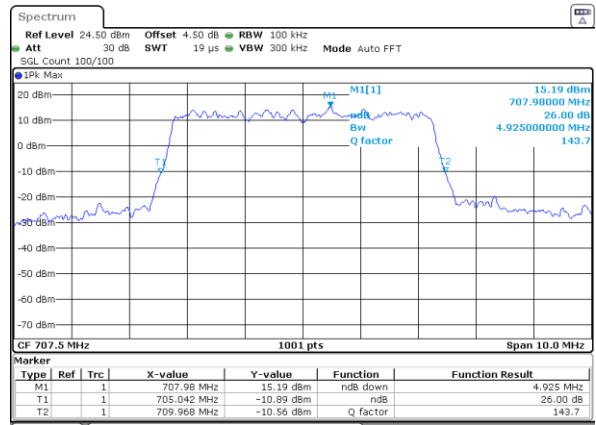
Lowest Channel / 5MHz / 16QAM



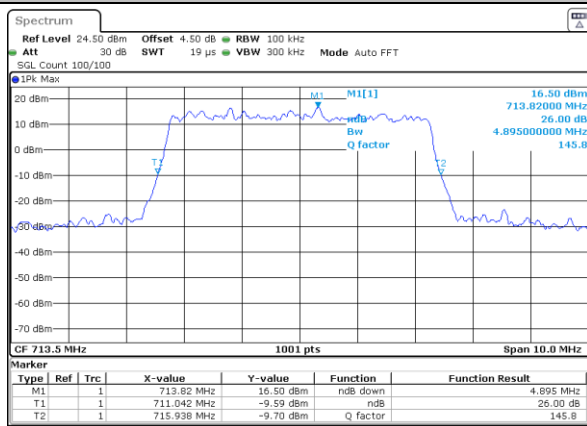
Middle Channel / 5MHz / QPSK



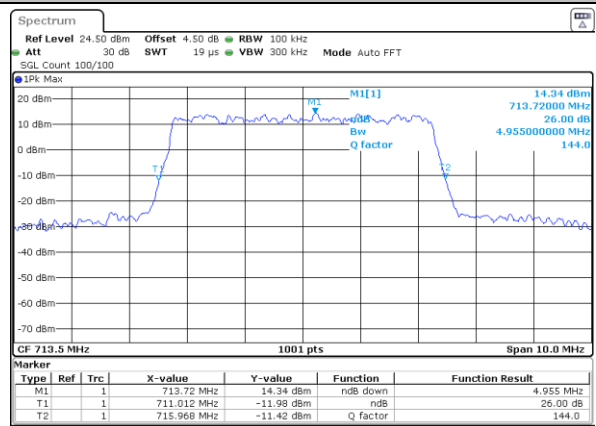
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



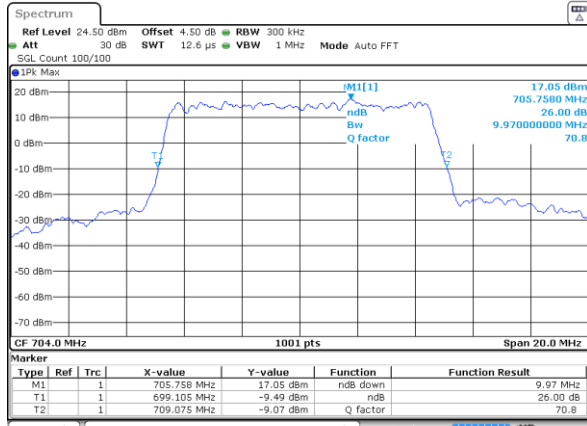
Highest Channel / 5MHz / 16QAM



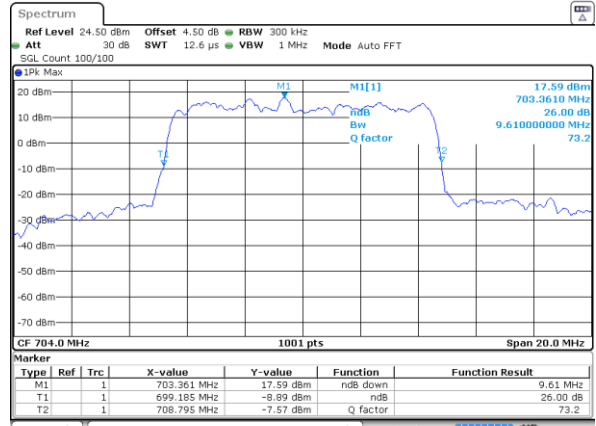


LTE Band 12

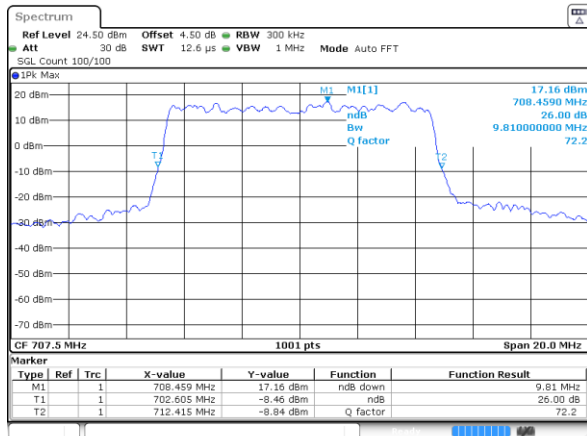
Lowest Channel / 10MHz / QPSK



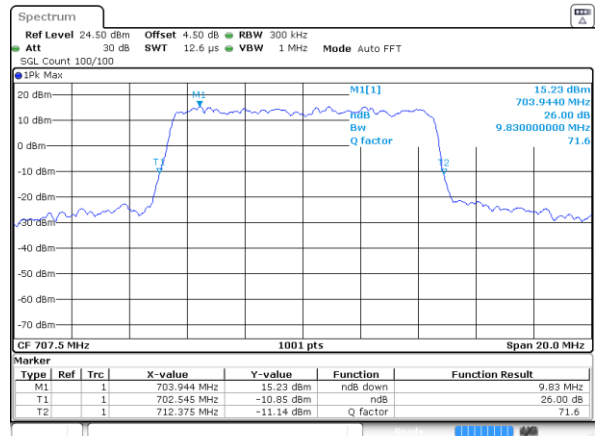
Lowest Channel / 10MHz / 16QAM



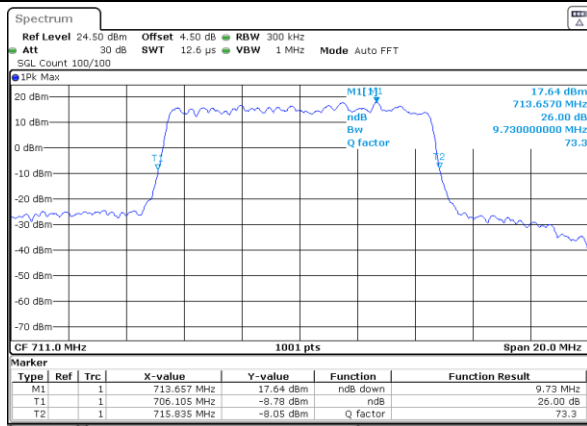
Middle Channel / 10MHz / QPSK



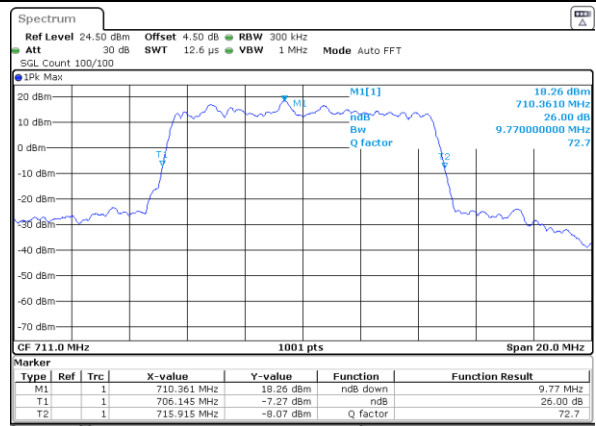
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



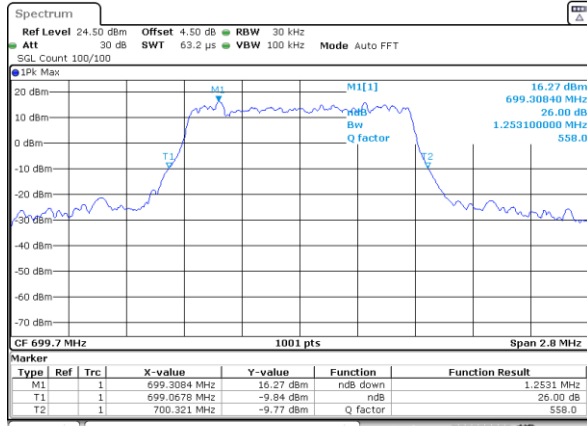
Highest Channel / 10MHz / 16QAM





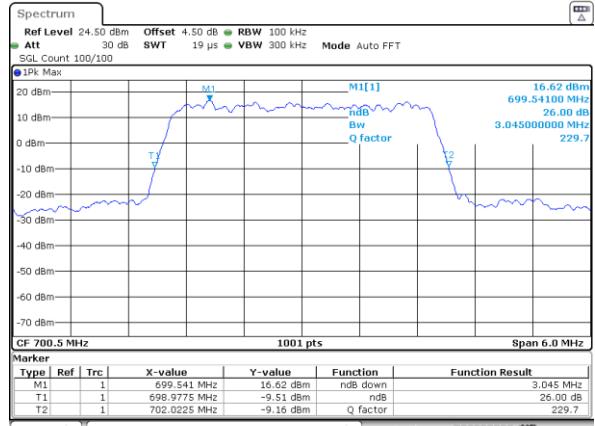
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



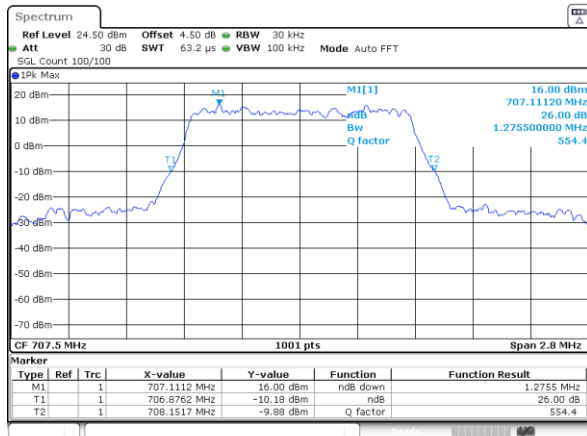
Date: 25.AUG.2020 09:41:50

Lowest Channel / 3MHz / 64QAM



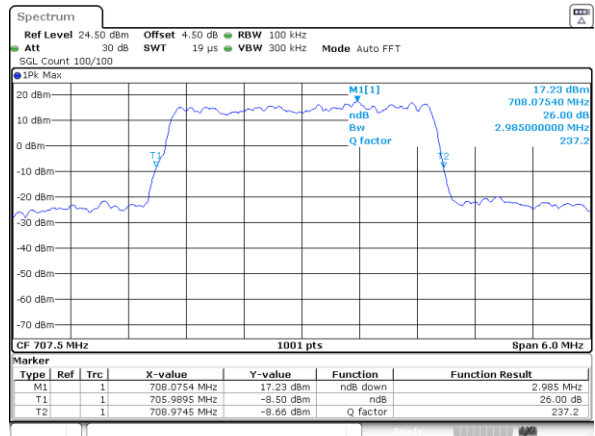
Date: 25.AUG.2020 10:11:20

Middle Channel / 1.4MHz / 64QAM



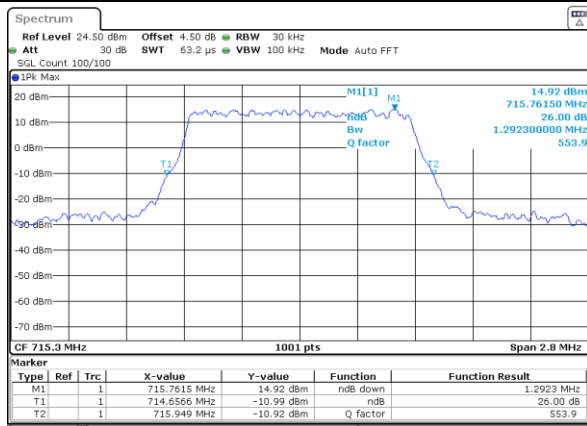
Date: 25.AUG.2020 09:57:20

Middle Channel / 3MHz / 64QAM



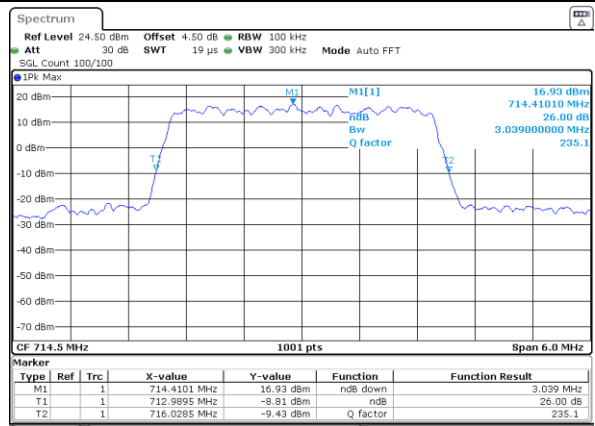
Date: 25.AUG.2020 10:14:44

Highest Channel / 1.4MHz / 64QAM



Date: 25.AUG.2020 09:58:00

Highest Channel / 3MHz / 64QAM

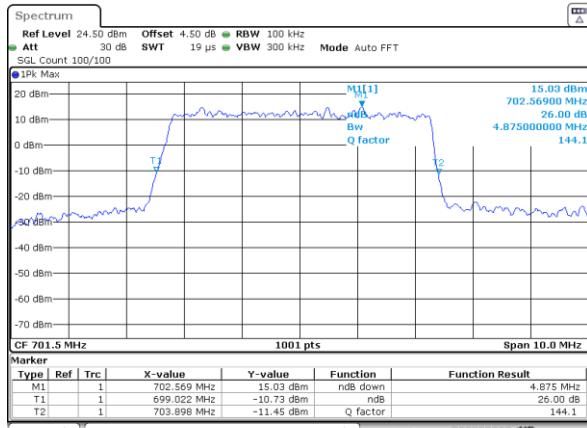


Date: 25.AUG.2020 10:15:30

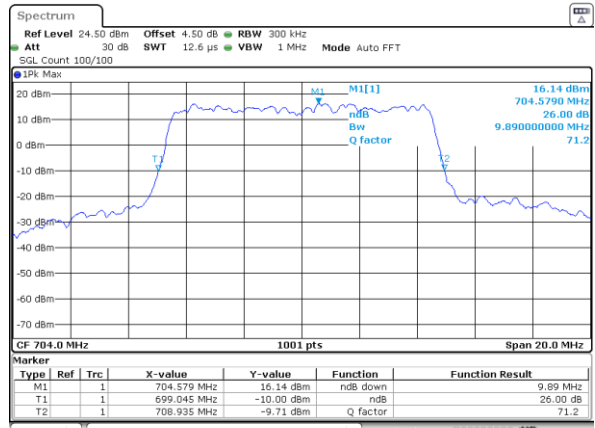


LTE Band 12

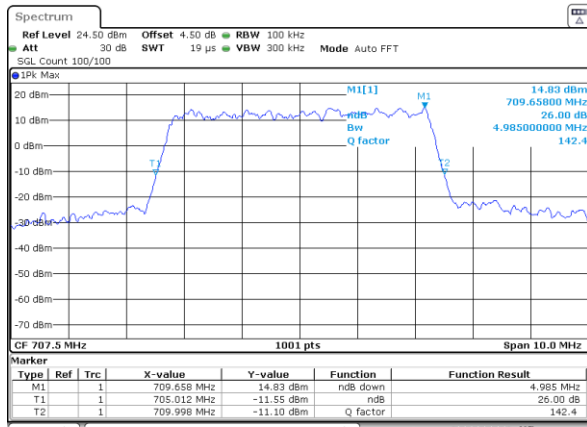
Lowest Channel / 5MHz / 64QAM



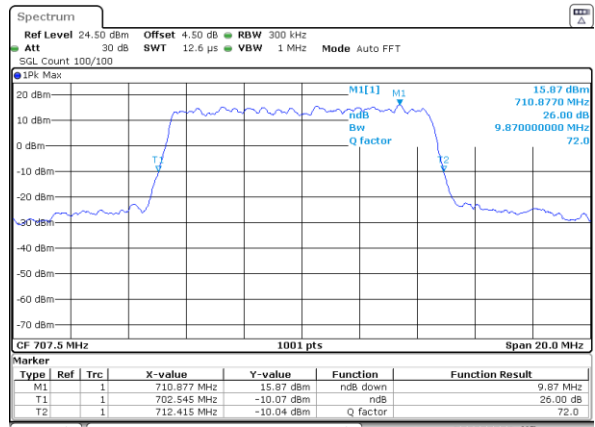
Lowest Channel / 10MHz / 64QAM



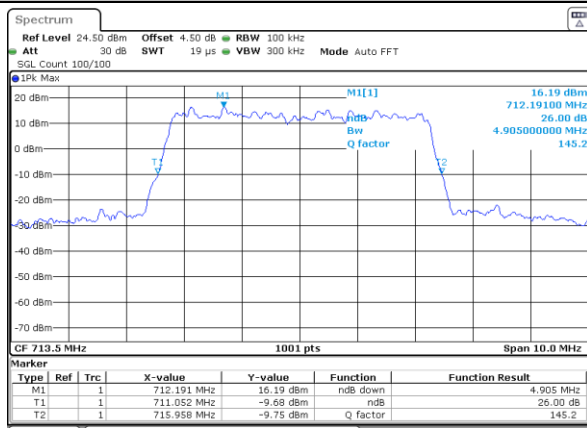
Middle Channel / 5MHz / 64QAM



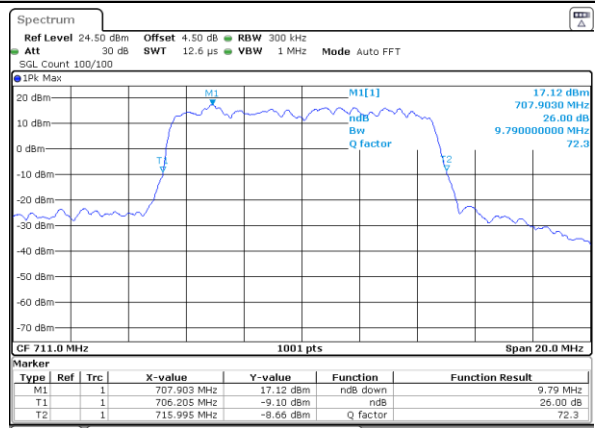
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM



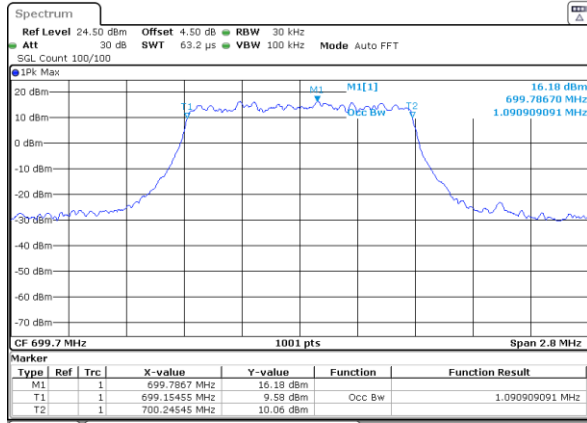
**Occupied Bandwidth**

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.10	2.71	2.69	4.50	4.49	9.03	9.01
Middle CH	1.09	1.09	2.72	2.73	4.49	4.50	9.03	9.01
Highest CH	1.10	1.10	2.70	2.70	4.49	4.50	9.05	9.05
Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.49	-	9.05	-
Middle CH	1.09	-	2.72	-	4.50	-	9.03	-
Highest CH	1.08	-	2.74	-	4.49	-	8.93	-

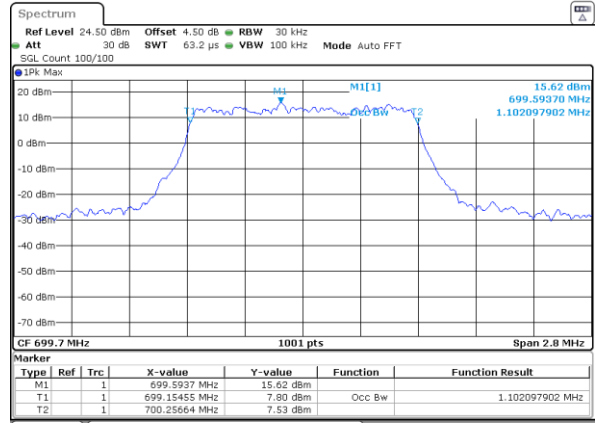


LTE Band 12

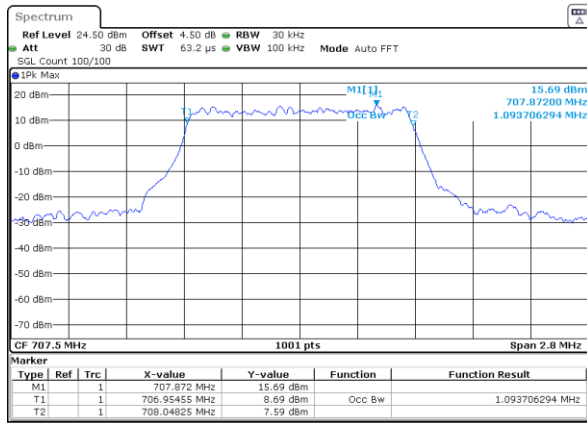
Lowest Channel / 1.4MHz / QPSK



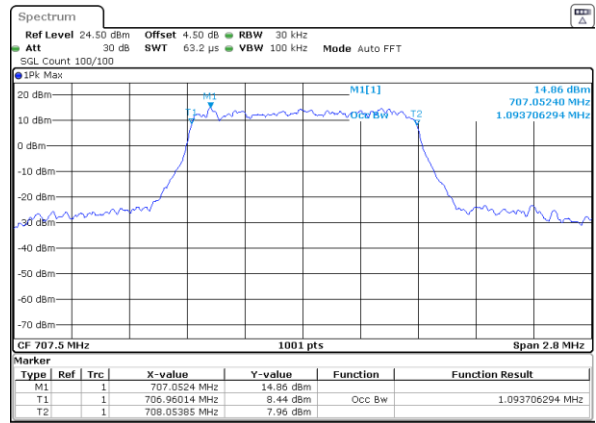
Lowest Channel / 1.4MHz / 16QAM



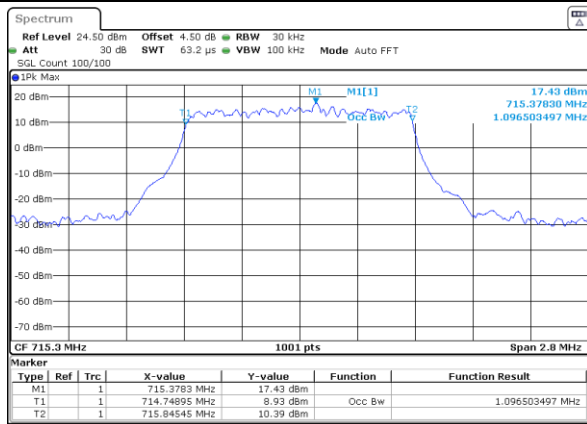
Middle Channel / 1.4MHz / QPSK



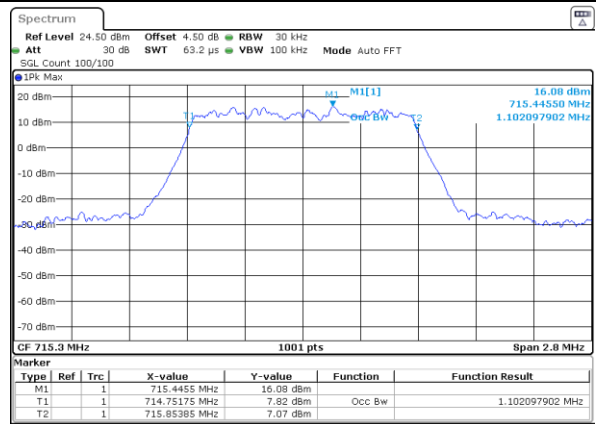
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



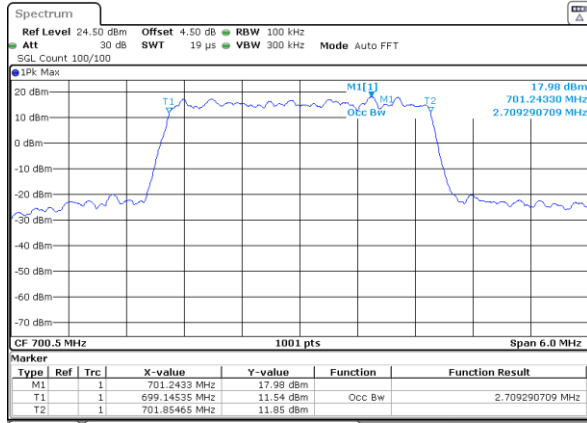
Highest Channel / 1.4MHz / 16QAM





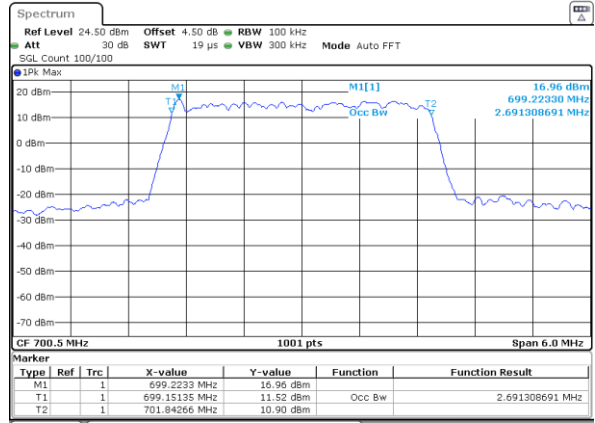
LTE Band 12

Lowest Channel / 3MHz / QPSK



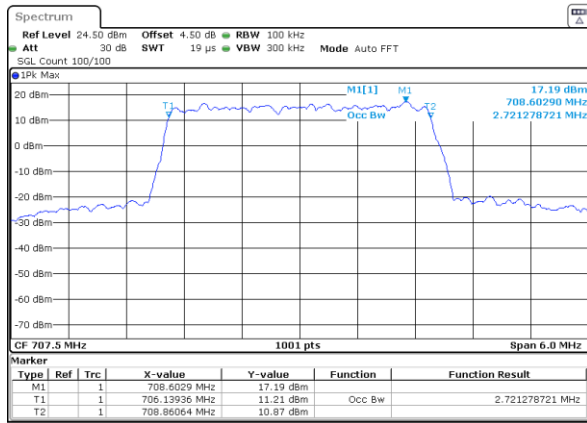
Date: 6 AUG 2020 15:12:23

Lowest Channel / 3MHz / 16QAM



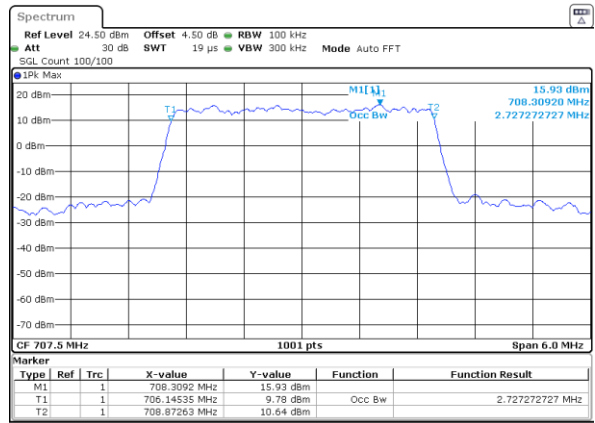
Date: 6 AUG 2020 15:11:26

Middle Channel / 3MHz / QPSK



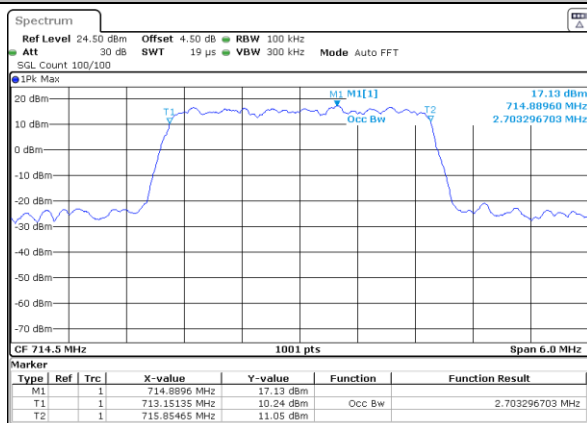
Date: 6 AUG 2020 15:19:15

Middle Channel / 3MHz / 16QAM



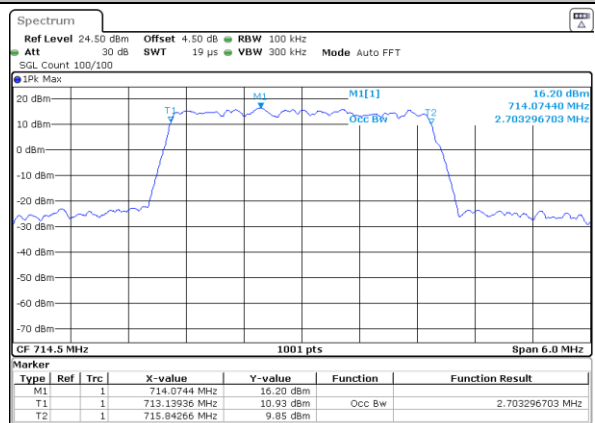
Date: 6 AUG 2020 15:19:37

Highest Channel / 3MHz / QPSK



Date: 6 AUG 2020 15:23:32

Highest Channel / 3MHz / 16QAM

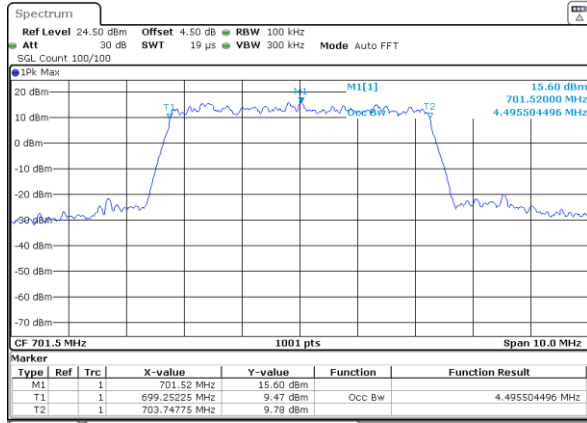


Date: 6 AUG 2020 15:22:36



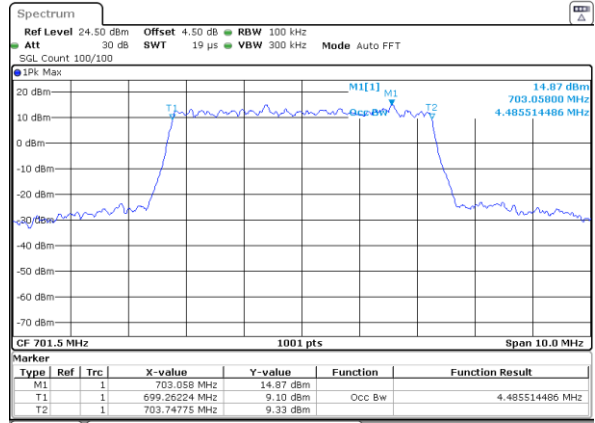
LTE Band 12

Lowest Channel / 5MHz / QPSK



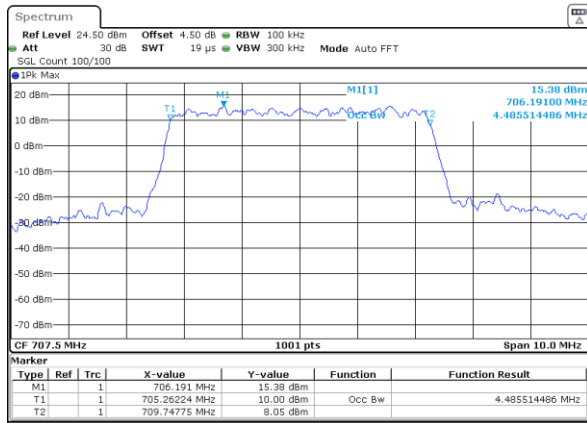
Date: 6 AUG 2020 15:28:02

Lowest Channel / 5MHz / 16QAM



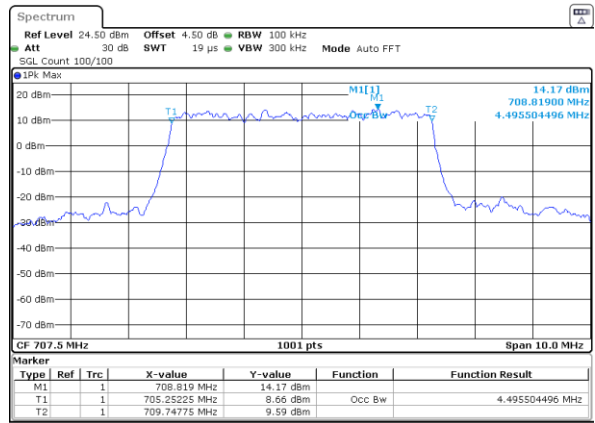
Date: 6 AUG 2020 15:28:59

Middle Channel / 5MHz / QPSK



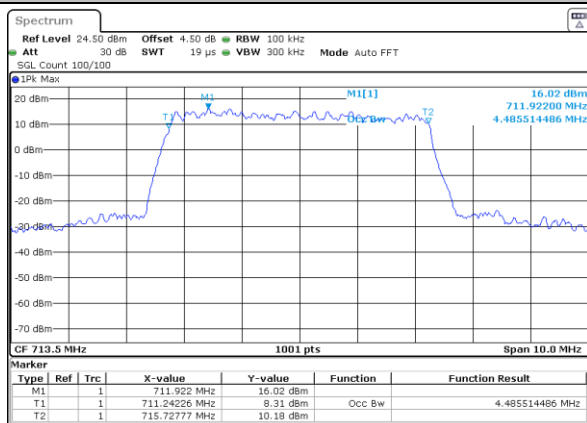
Date: 6 AUG 2020 15:35:27

Middle Channel / 5MHz / 16QAM



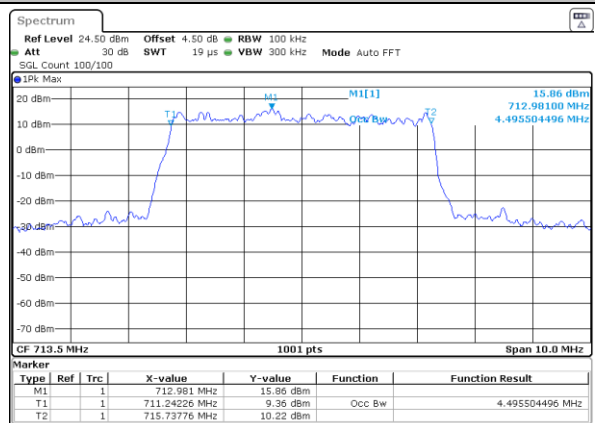
Date: 6 AUG 2020 15:34:35

Highest Channel / 5MHz / QPSK



Date: 6 AUG 2020 15:37:03

Highest Channel / 5MHz / 16QAM

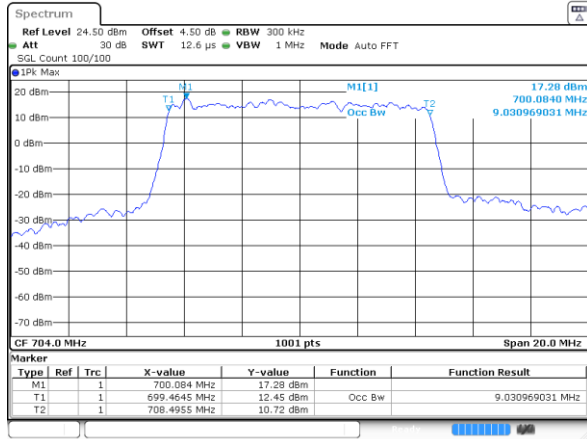


Date: 6 AUG 2020 15:38:04

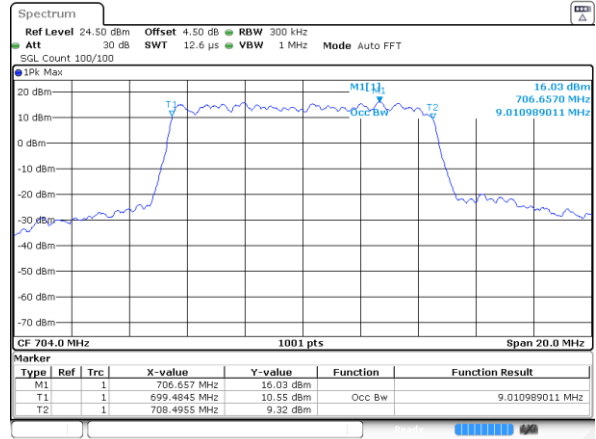


LTE Band 12

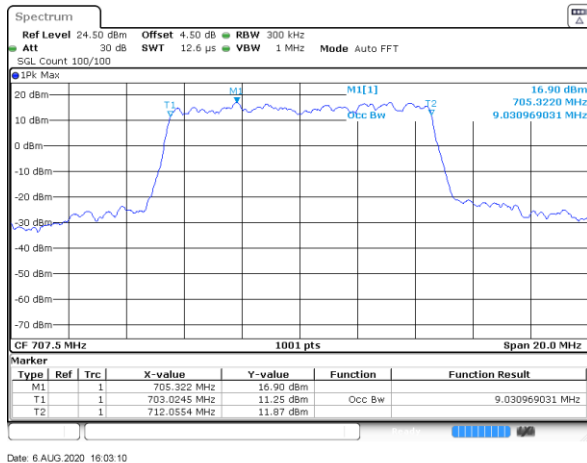
Lowest Channel / 10MHz / QPSK



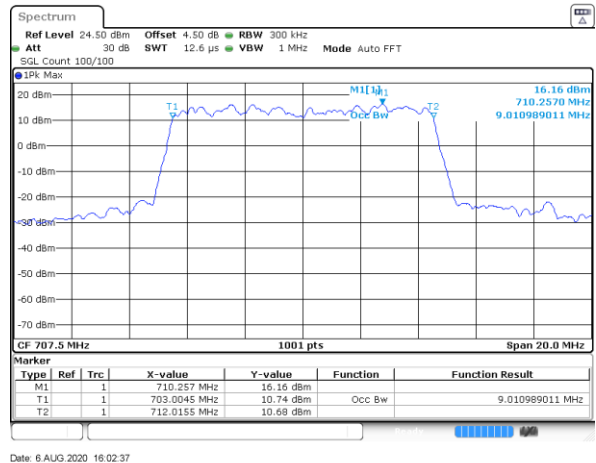
Lowest Channel / 10MHz / 16QAM



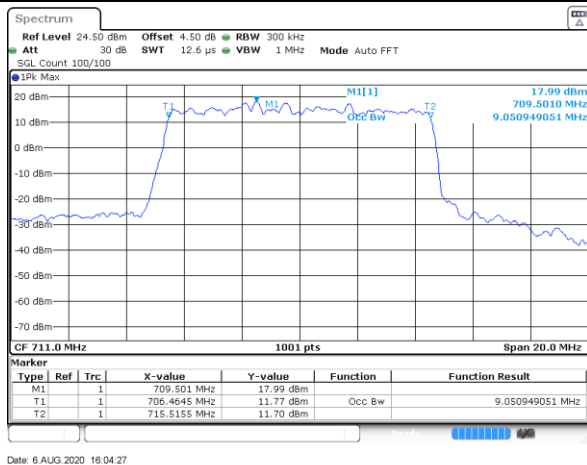
Middle Channel / 10MHz / QPSK



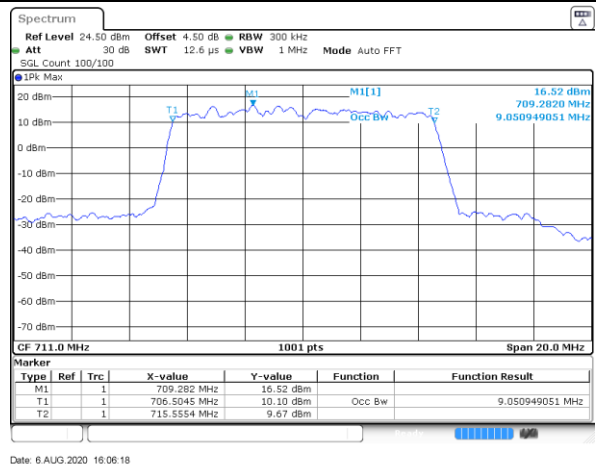
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



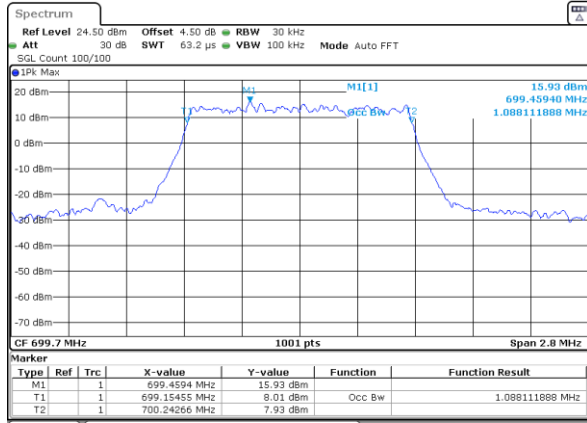
Highest Channel / 10MHz / 16QAM





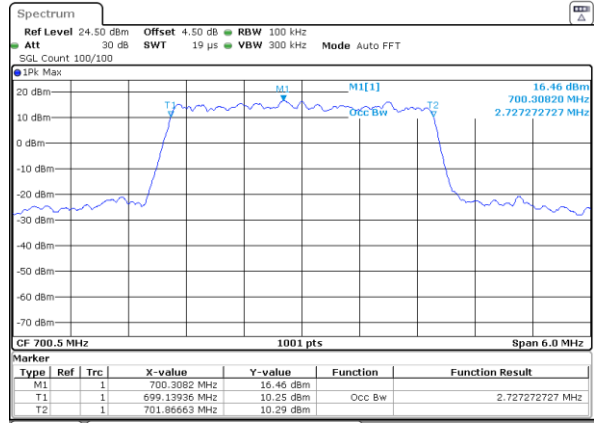
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



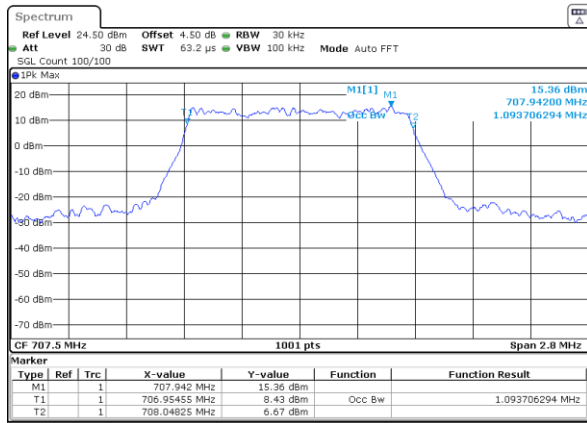
Date: 25.AUG.2020 09:41:52

Lowest Channel / 3MHz / 64QAM



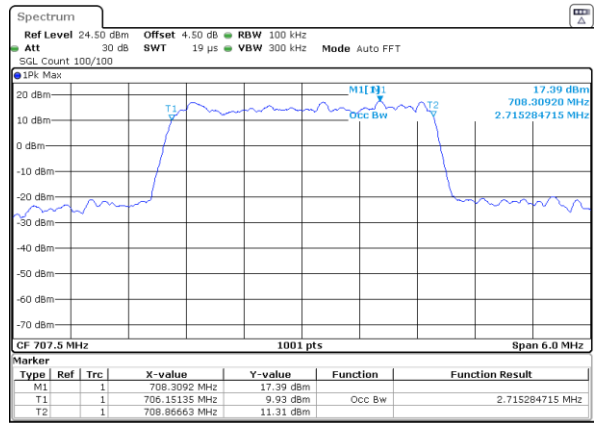
Date: 25.AUG.2020 10:11:14

Middle Channel / 1.4MHz / 64QAM



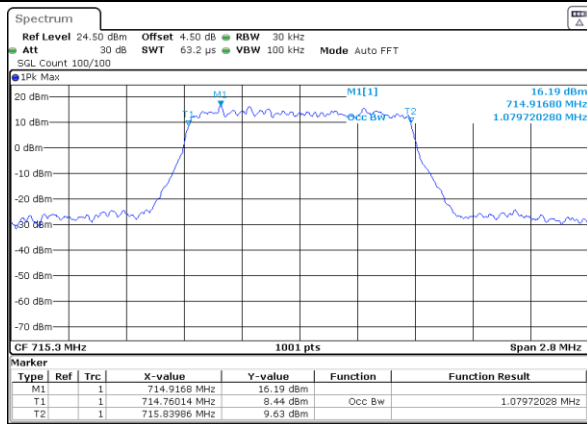
Date: 25.AUG.2020 09:57:13

Middle Channel / 3MHz / 64QAM



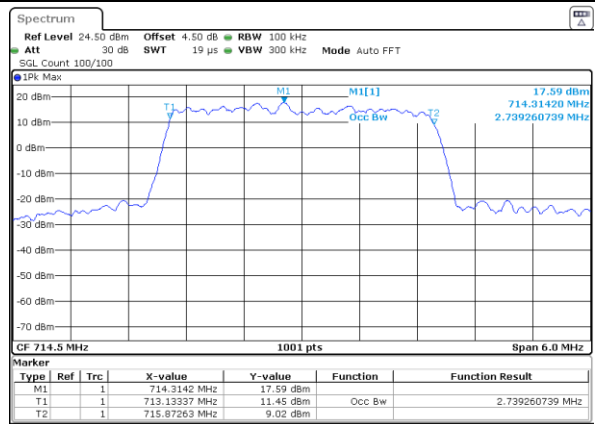
Date: 25.AUG.2020 10:14:36

Highest Channel / 1.4MHz / 64QAM



Date: 25.AUG.2020 09:57:53

Highest Channel / 3MHz / 64QAM

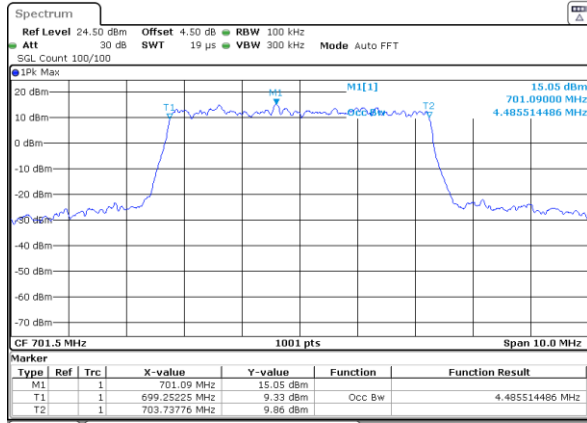


Date: 25.AUG.2020 10:15:24

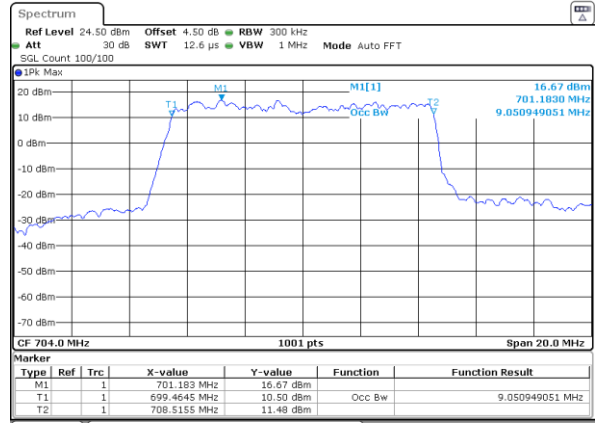


LTE Band 12

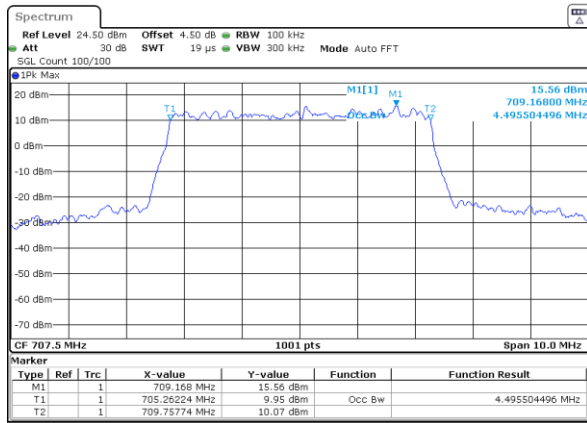
Lowest Channel / 5MHz / 64QAM



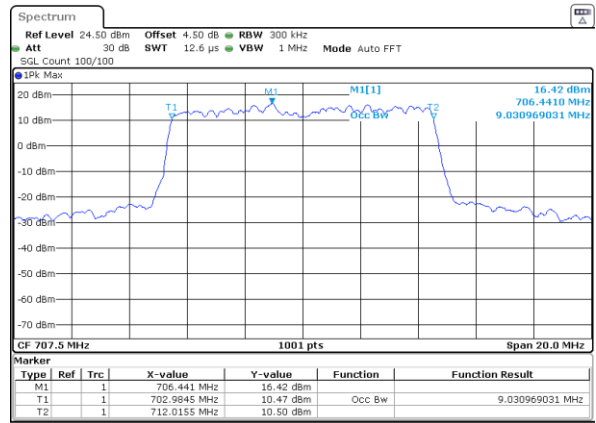
Lowest Channel / 10MHz / 64QAM



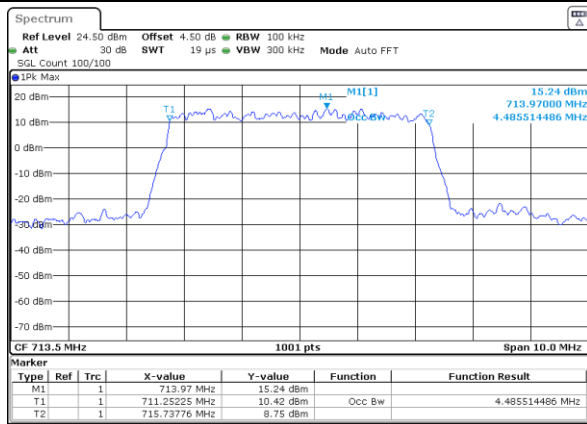
Middle Channel / 5MHz / 64QAM



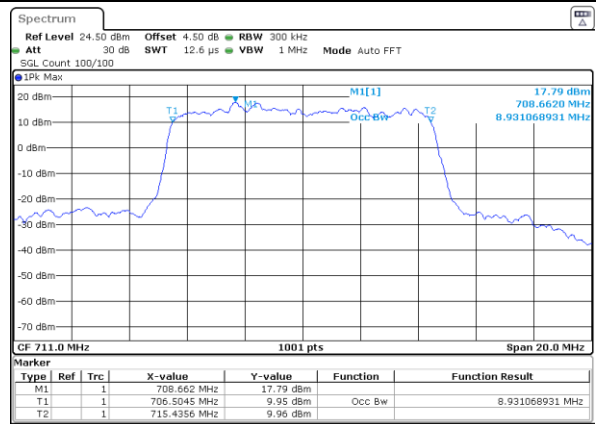
Middle Channel / 10MHz / 64QAM

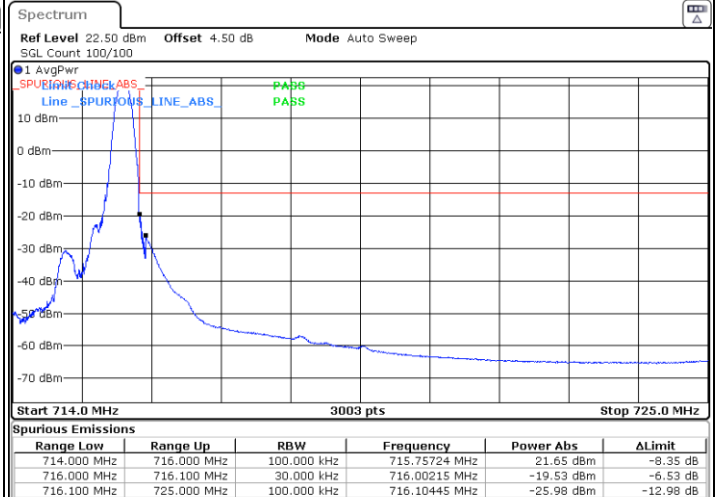
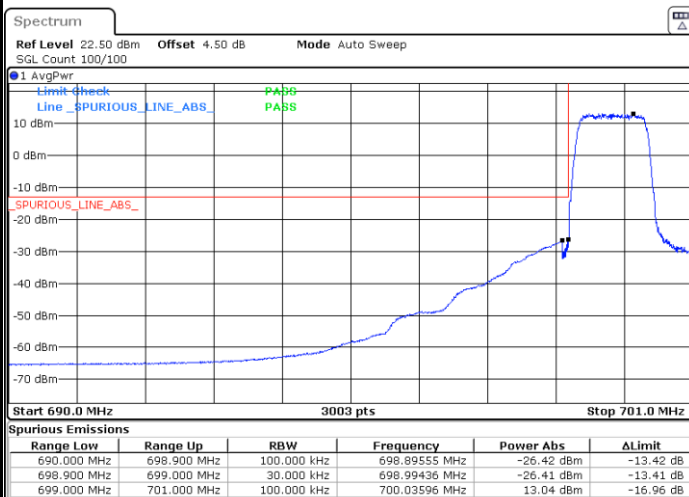
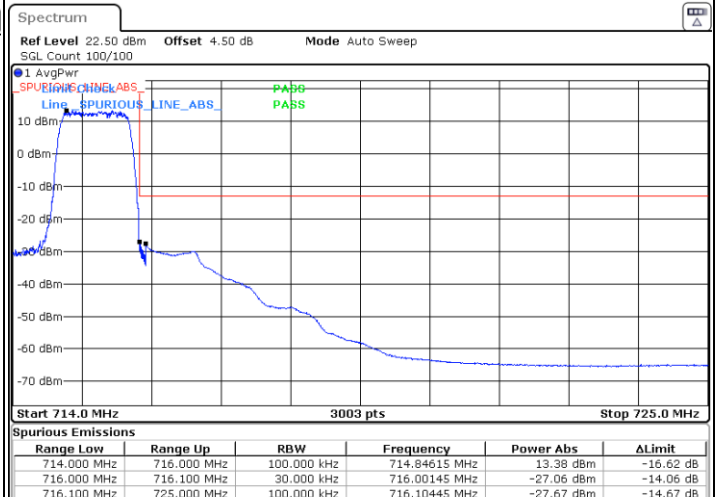


Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

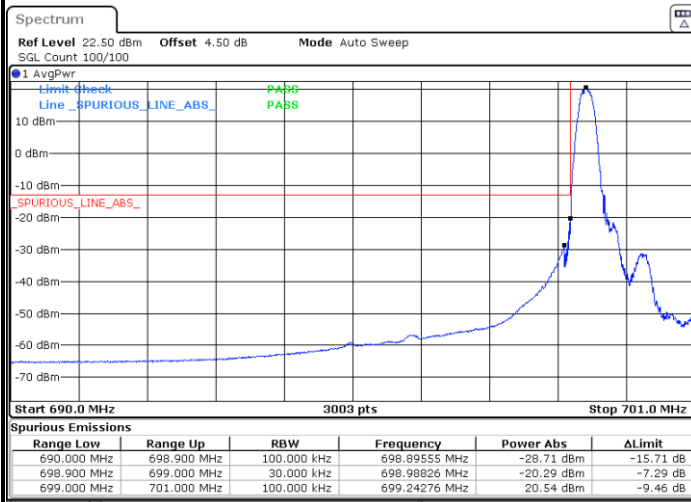


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

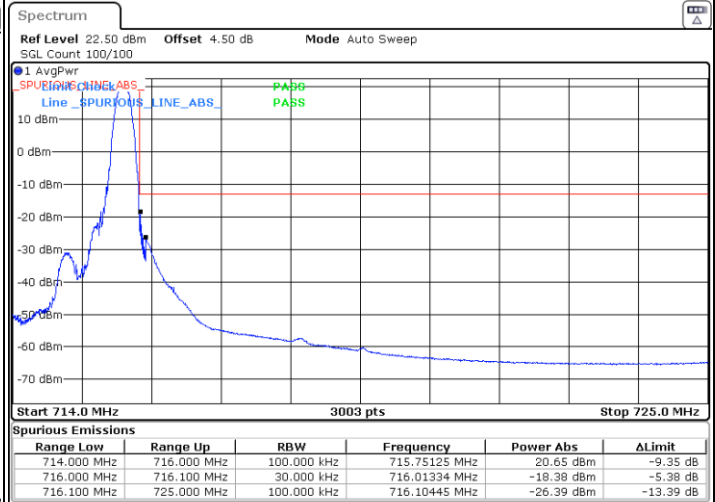


LTE Band 12 / 1.4MHz / 16QAM

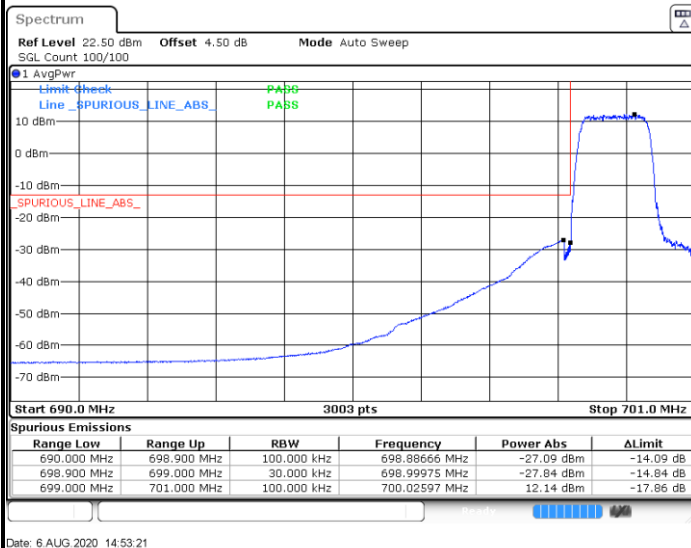
Lowest Band Edge / 1 RB



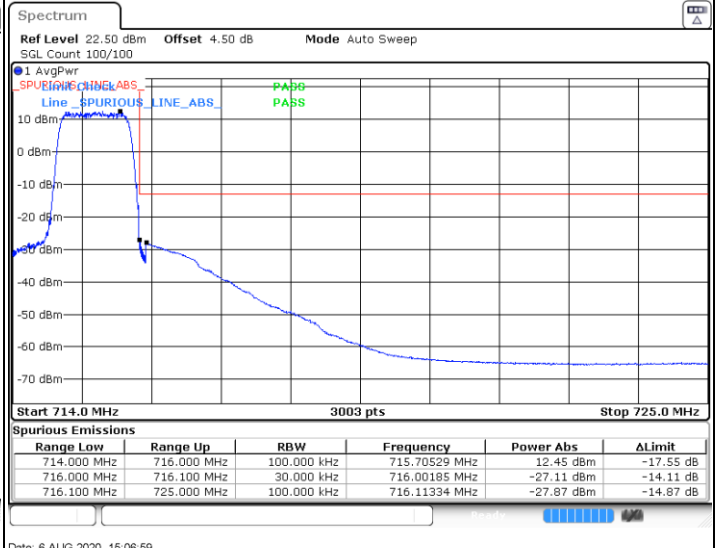
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



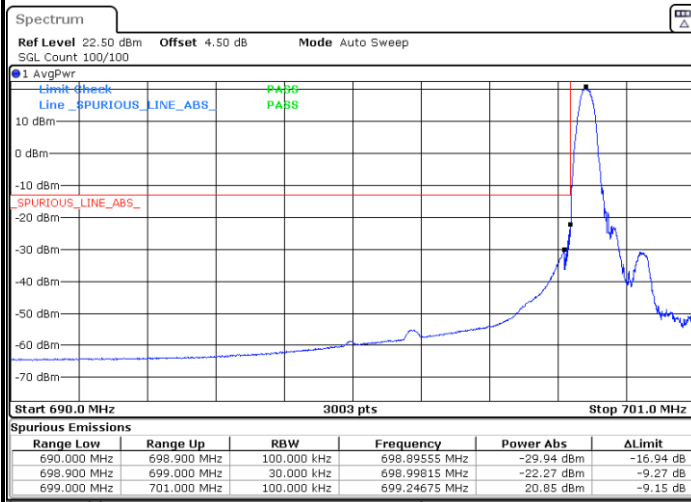
Highest Band Edge / Full RB



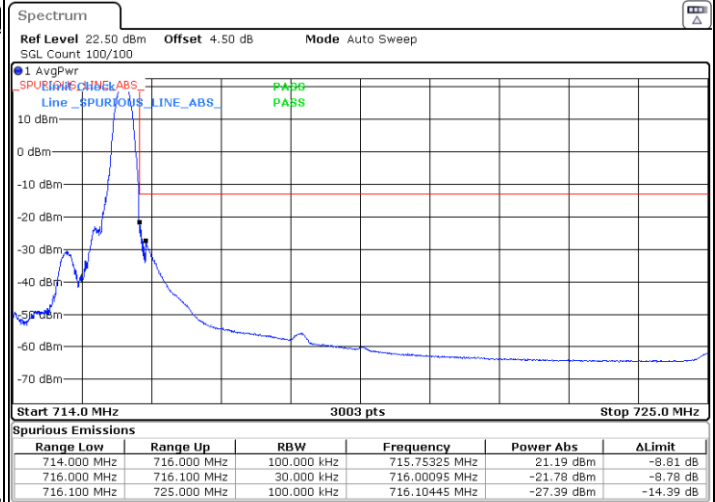


LTE Band 12 / 1.4MHz / 64QAM

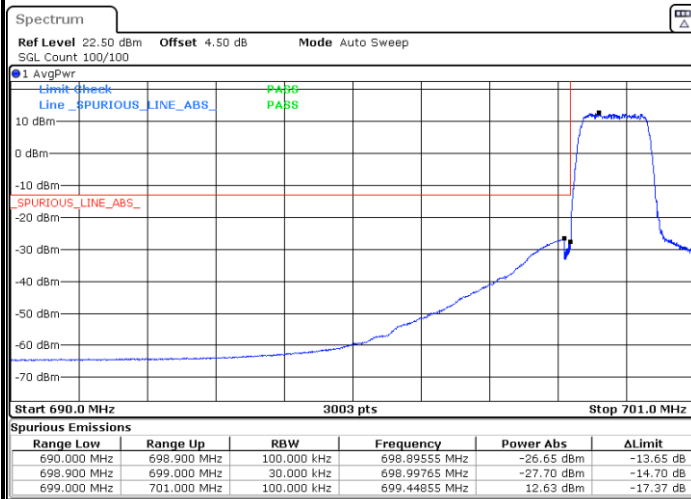
Lowest Band Edge / 1 RB



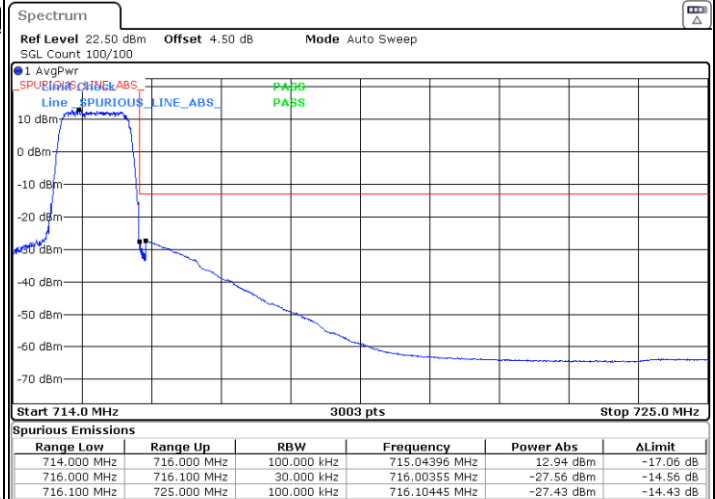
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



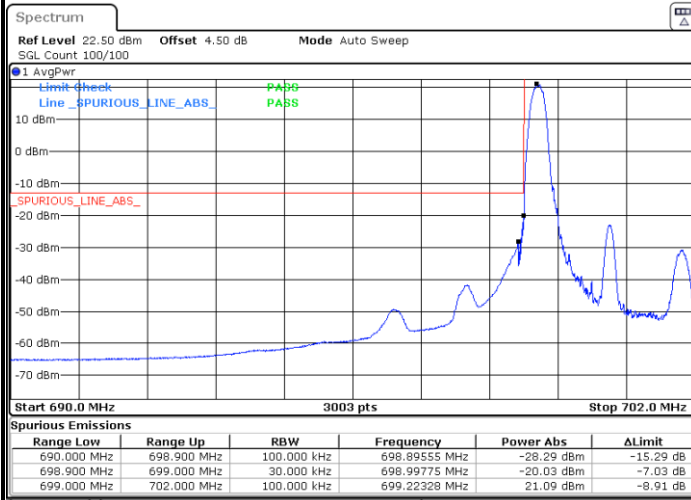
Highest Band Edge / Full RB



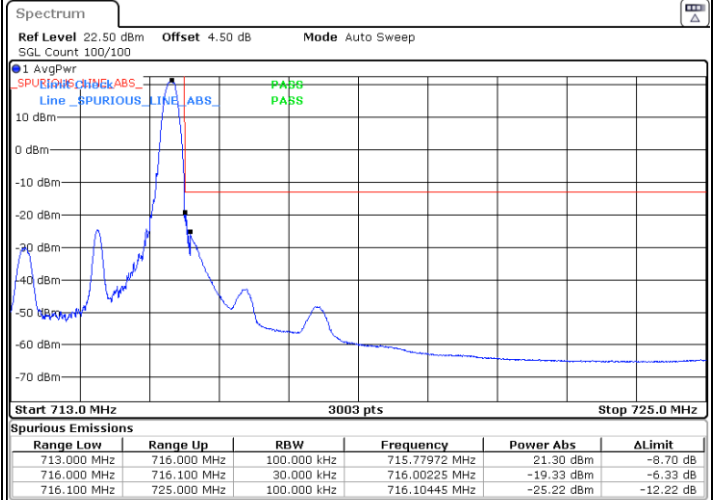


LTE Band 12 / 3MHz / QPSK

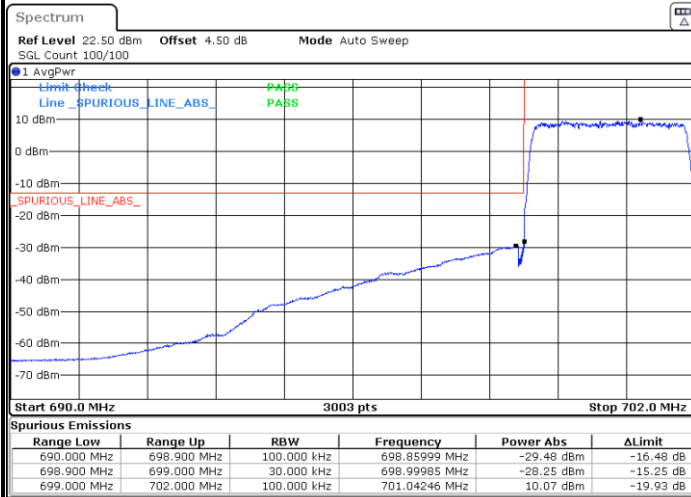
Lowest Band Edge / 1RB



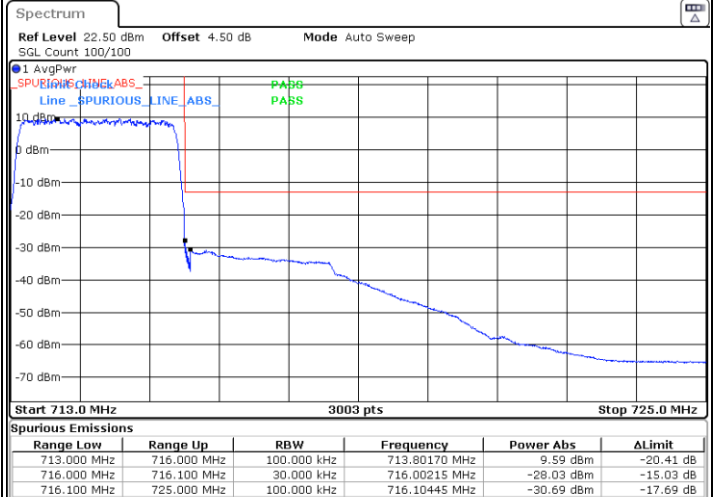
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



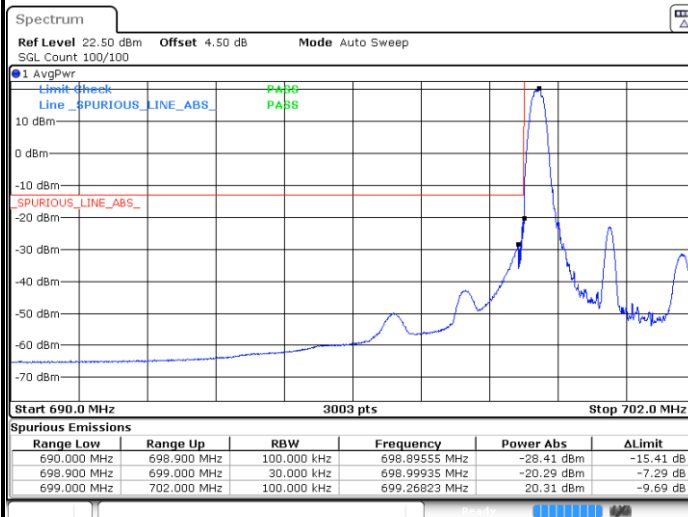
Highest Band Edge / Full RB



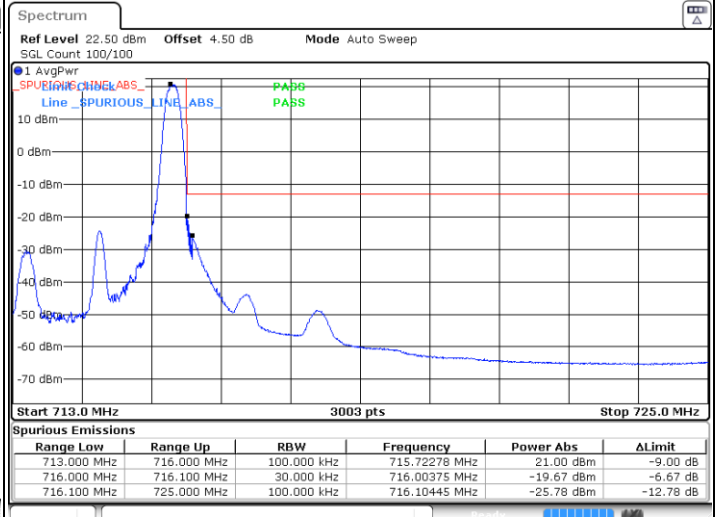


LTE Band 12 / 3MHz / 16QAM

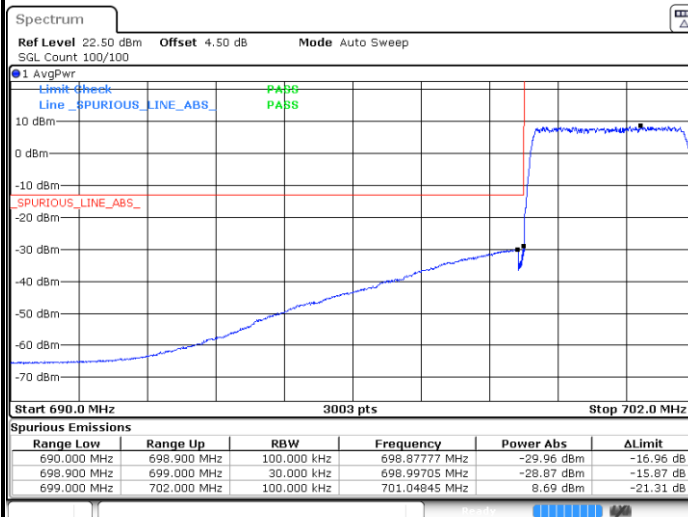
Lowest Band Edge / 1 RB



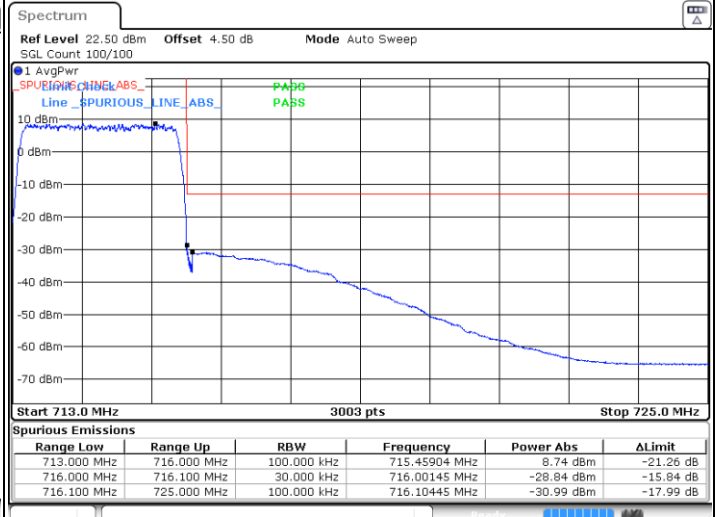
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



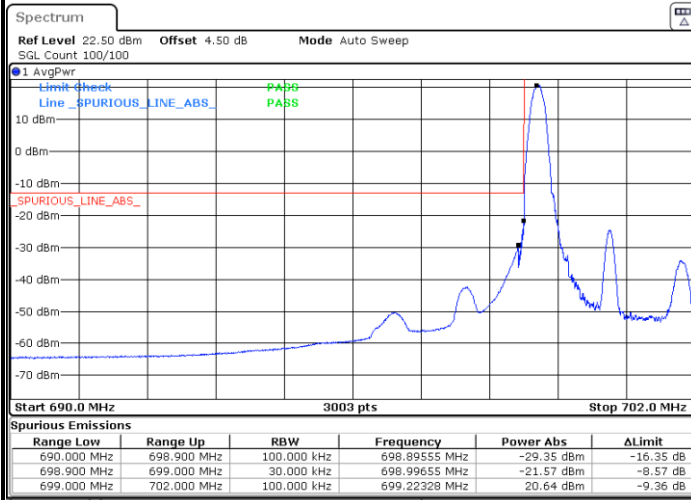
Highest Band Edge / Full RB



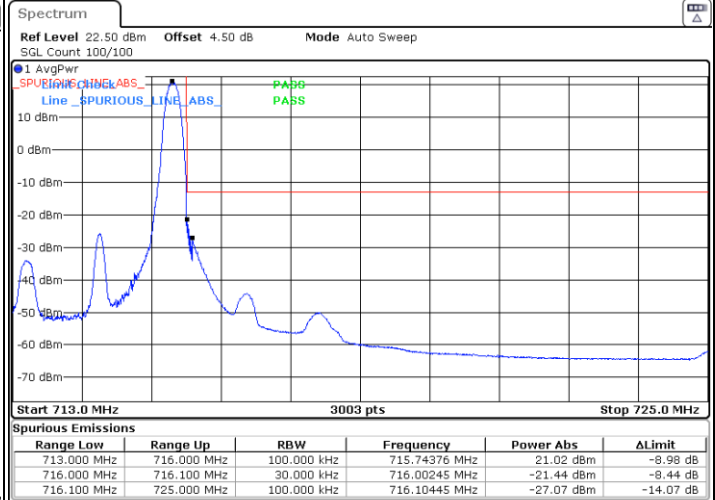


LTE Band 12 / 3MHz / 64QAM

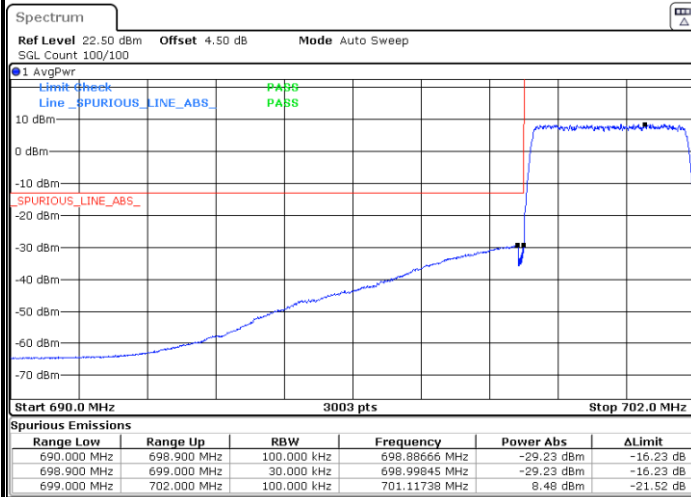
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



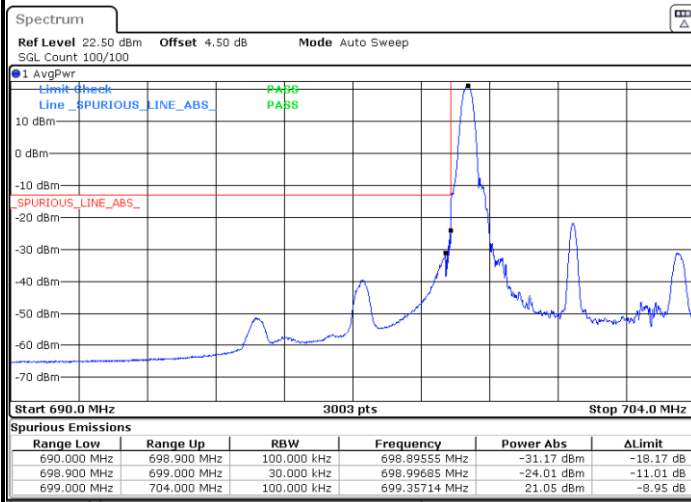
Highest Band Edge / Full RB



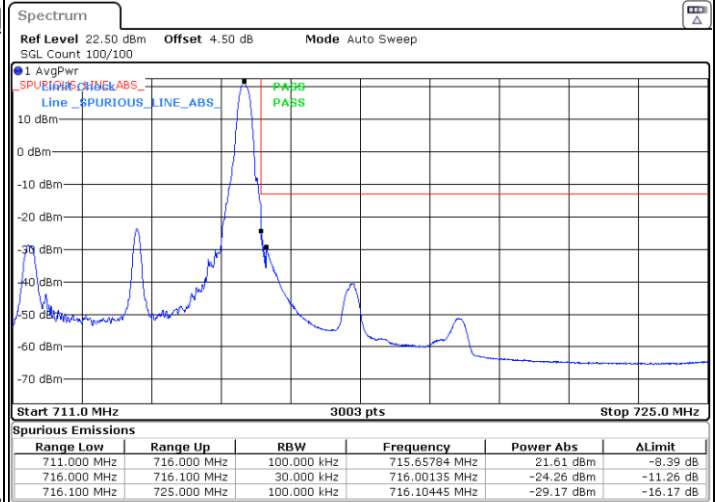


LTE Band 12 / 5MHz / QPSK

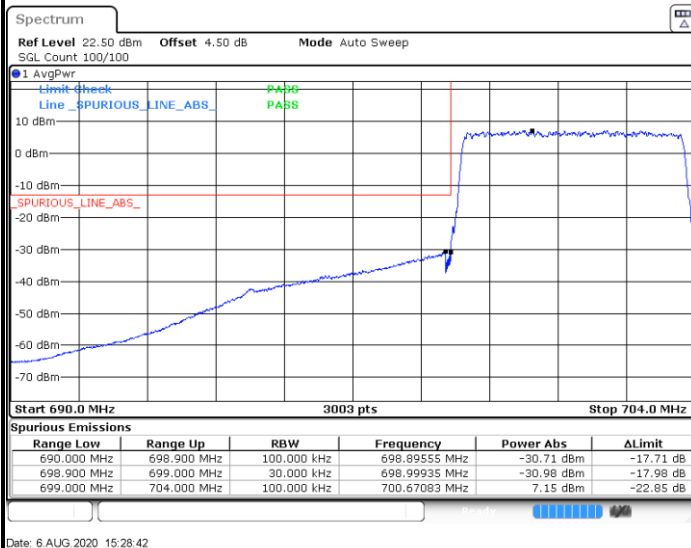
Lowest Band Edge / 1 RB



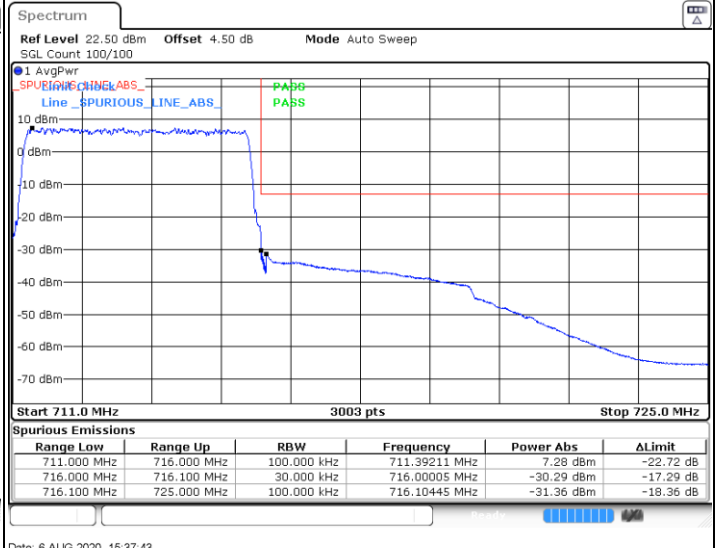
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



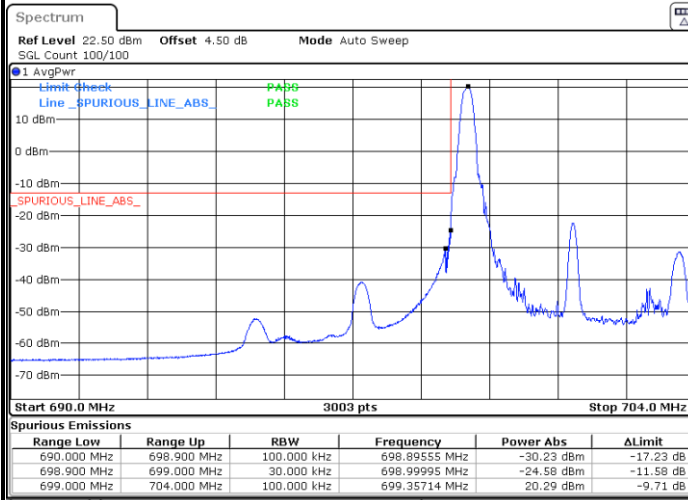
Highest Band Edge / Full RB



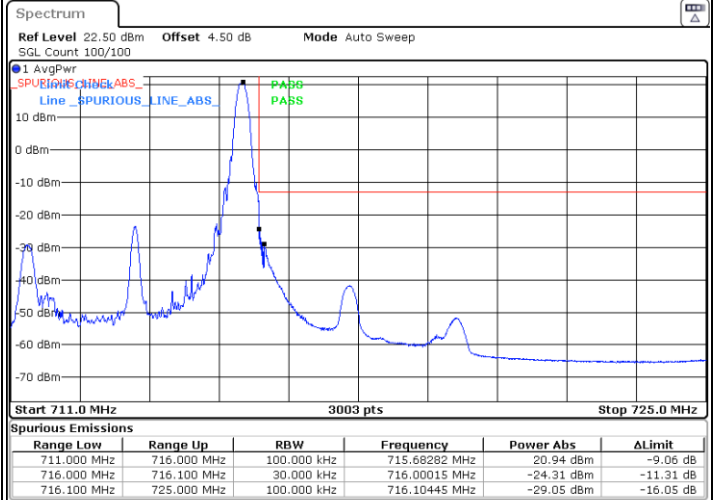


LTE Band 12 / 5MHz / 16QAM

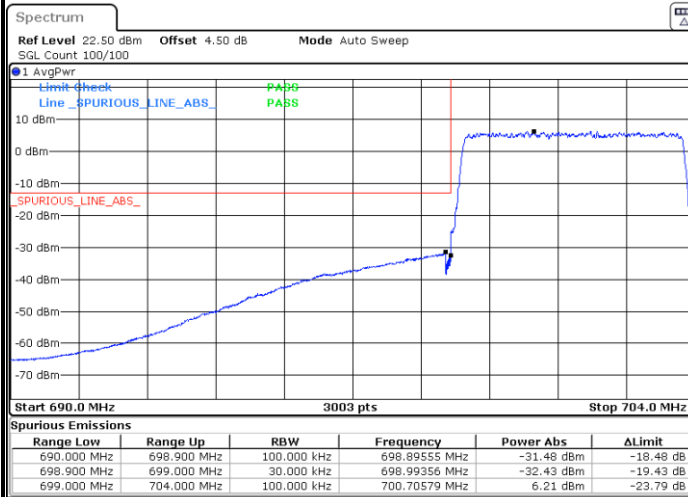
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

